

Test Report

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南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)

南亞電子材料(昆山)有限公司 (NANYA ELECTRONIC MATERIALS (KUNSHAN) CORP. LTD.)

南亞電子材料(惠州)有限公司 (NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

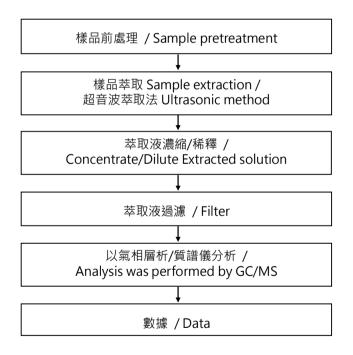
台北市松山區敦化北路201號 (NO. 201 TUNG HWA NORTH ROAD, SONGSHAN DIST., TAIPEI, TAIWAN, R.O.C.)

江蘇省昆山市昆山經濟技術開發區長江南路201號 (201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, KUNSHAN, JIANG SU, CHINA 215300)

廣東省惠州市博羅縣石灣鎮永石大道230號 (NO. 230, YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

分析流程圖 / Analytical flow chart

*適用於 / Apply to: 富馬酸二甲酯(DMFU)、六溴環十二烷(HBCDD)、乙二醇醚及其酯類(Ethylene glycol ether)、 有機磷化合物(Organic phosphorus compounds)、BNST





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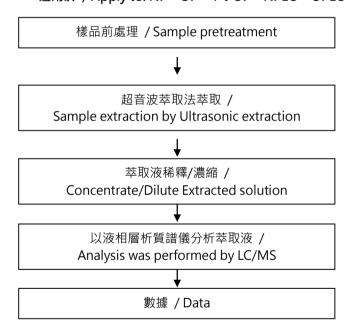
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分析流程圖 / Analytical flow chart

* 適用於 / Apply to: NP、OP、4-t-OP、NPEO、OPEO





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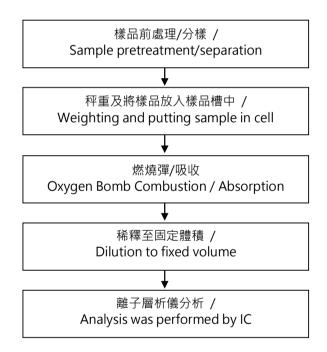
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鹵素分析流程圖 / Analytical flow chart - Halogen





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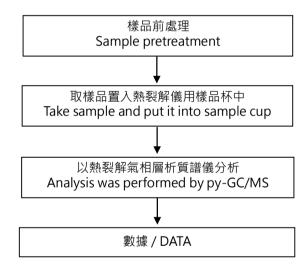
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紅磷分析流程 / Analytical flow chart - Red phosphorus





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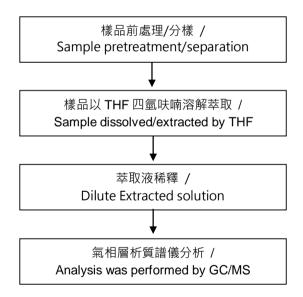
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】





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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR22800034



ETR22800034



** 報告結尾 (End of Report) **



Report No.: 238551574b 001 Page 1 of 6

Client: USI CORPORATION

Contact Information: No.9, Dinghu 5th St., Guishan Dist., Taoyuan City 33378, Taiwan

(R.O.C.)

Identification/ Low density polyethylene (LDPE)

Model No(s): NA112-27,NA205-15,NA208,NA248,NA207-66

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2022-12-29

Testing Period: 2022-12-29 to 2023-01-06

Place of testing: Chemical laboratory Shanghai

Test Specification: Test result:

1. Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) PASS

and Polybrominated diphenyl ethers (PBDE)

2. BBP, DBP, DEHP, DIBP content PASS

According to RoHS (recast): Restriction of the Use of Certain Hazardous PASS Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and

its amendment Directive (EU) 2015/863

For and on behalf of

TÜV Rheinland (Shanghai) Co., Ltd.

2023-01-09

Date

Nicky Chen / Assistant Manager

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.



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Material List:

Item: Low density polyethylene (LDPE)

NA112-27,NA205-15,NA208,NA248,NA207-66

Material No.	Material	Color	Location
M002	Plastic	Translucent	TCL221222-02



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1.Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)

Test Method: Total Cadmium, Lead, Mercury, Chromium

- Ref. to IEC 62321-4:2013+AMD1:2017 and IEC 62321-5:2013

Chromium (VI)

- For Metal material - Ref. to IEC 62321-7-1:2015

- For Plastic or Electronic material - Ref. to IEC 62321-7-2:2017

- For Leather material - Ref. to EN ISO 17075-1:2017

PBBs, PBDEs - Ref. to IEC 62321-6:2015

Test Result:

	Cd	Cr(VI)	Pb	Hg	PBBs (*)	PBDEs (*)
Maximum Permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

Metavial Na	(%)							
	Cd	Cr^	^ Pb Hg PBBs (*) F					
Material No.			RL (%)				
	0.0002	0.0008	0.0002	0.0002	0.0005	0.0005		
M002	< RL	< RL	< RL	< RL	< RL	< RL		

Material No.	Hexavalent Chromium Content (%) (*2) RL: 0.0008%
M002	< RL

Abbreviation: Pb = Lead

 $\begin{array}{lll} \text{Cd} & = & \text{Cadmium} \\ \text{Hg} & = & \text{Mercury} \\ \text{Cr} & = & \text{Chromium} \\ \text{Cr}\left(\text{VI}\right) & = & \text{Chromium}\left(\text{VI}\right) \end{array}$

PBBs = Total Polybrominated Biphenyls PBDEs = Total Polybrominated Diphenyl Ethers

< = Less than RL = Reporting Limit n.a. = Not Applicable

^ = The total Chromium have been determined

% = Percentage

Remark:



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^{*} The reporting limit for each individual PBBs and individual PBDEs are :

	Reporting Limit (%)				
	Bromobiphenyl	0.0005			
	Dibromobiphenyl	0.0005			
	Tribromobiphenyl	0.0005			
	Tetrabromobiphenyl	0.0005			
PBBs	Pentabromobiphenyl	0.0005			
	Hexabromobiphenyl	0.0005			
	Heptabromobiphenly	0.0005			
	Octabromobiphenyl	0.0005			
	Nonabromobiphenyl	0.0005			
	Decabromobiphenyl	0.0005			
	Bromodiphenylether	0.0005			
	Dibromodiphenyl ether	0.0005			
	Tribromodiphenyl ether	0.0005			
	Tetrabromodiphenyl ether	0.0005			
PBDEs	Pentabromodiphenyl ether	0.0005			
	Hexabromodiphenyl ether	0.0005			
	Heptabromodiphenyl ether	0.0005			
	Octabromodiphenyl ether	0.0005			
	Nonabromodiphenyl ether	0.0005			
	Decabromodiphenyl ether	0.0005			

^(*2) The Chromium (VI) content of plastic sample or electronic sample have been confirmed with reference to IEC 62321-7-2:2017

^(*3) The Chromium (VI) content of leather sample have been confirmed with reference to EN ISO 17075-1:2017.



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2. BBP, DBP, DEHP, DIBP content

Test Method: IEC 62321-8:2017

Test Result:

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit (%)	0.1	0.1	0.1	0.1

			(%	%)	
Test No.	Material No.	BBP	DBP	DIBP	
rest No.	Material No.		RL	(%)	
		0.005	0.005	0.005	0.005
T001	M002	< RL	< RL	< RL	< RL

Abbreviation: BBP= Benzylbutyl phthalate

DBP= Dibutyl phthalate

DEHP= Bis(2-ethylhexyl) phthalate

DIBP= Diisobutyl phthalate

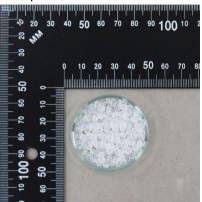
< = less than

RL = Reporting Limit %= percentage



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Sample Photo



- END -



General Terms and Conditions of Business of TÜV Rheinland in Greater China

These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTCB") is made between the client and one or more member entities of TÜV Rheinland. In Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China have forester china have who concludes the contract not for the purpose of a daily use; the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law. The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as an artillary services and other secondary have the services as well as a profilery services.

1.3

surgescurs provised winn the scope of contract performance. Any standard terms and conditions of the client of any statute shall not apply and shall hereby be expressly and conditions of the client of any statute shall not apply and shall hereby be the contract of the client of the client shall form part of in the contract of an originity business relationship with the client, this CTGS shall also apply to future contracts with the client without TUV Rheinland having to refer to them separately in each individual case.

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

Coming into effect and duration of contracts

The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon Rheinland or a separate contractual document being signed by both contracting parties, or upon Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is in its soile discretion, enterfield to accept the order by giving written notice of such acceptance (including notice sent via effectivoir means) or by performing the requested services. The contract lare material sport he compriging inceffect of the contract in accordance with article 3.1 and shall continue for the term greef in the contract. If the contract produce for a settlement of the contract is term, the contract term will be extended by if the contract produce for an extension of the contract term, the contract term will be extended by notice prior to the end of the contractual term. 3.1

Scope of services

The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland shall be written confirmation of ode by TÜV Rheinland shall be sourced in TÜV Rheinland shall be the written confirmation of ode by TÜV Rheinland shall be the service description (e.g. checking the correctness and functionality of parts, products, processes, installations, organizations not listed in the service description, as well as the intended use and application of auch) are not owed. In particular, no responsibility is assumed for the orphit, urities this is expressly stated in the order.

The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered inthe off to description, in its sold description, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.

sment unless otherwise suprecent mining and the top top top the top to followed.

excution of the work there shall be no simultaneous assumption of any guarantee of the trees (proper quality) and working order of either tested or examined parts nor of the chress (proper quality) and working order of either tested or examined parts nor of the fallation as a whole and its upstream and/or downstream processes, organisations, use and fallation as a whole in accordance with regulations, nor of the systems on which the installation is based, or a construction of the proper of

with regulatoris, unless tiesed releasons are level present yourset or yet included. In the case of interpection work, TOV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, it is not to the contract of the safety programmes for the agreed sarvice scope change after conclusion of the contract, with a written notice to the client, TOV Rheinland shall be entitled to additional remuneration for resulting additional expenses, served occlusionly with the central programmes and the contract of third parties with the services of TOV Rheinland as well as making available of and justifying ordindence in the work results (seat reports, test results, expert prosts, test) is not part of the agreed services. This also applies if the client passes on work results in accordance with clause 11.4. The contract with TOV Rheinland as well as making available of and justifying ordindence in the work work clause 11.4.

or and justifying confidence in the work results (test reports, test results, expert reports, etc.) is not until or his not roll the agreed services. This side applies if the client passes on work results - in hill or in The client understands and agrees that in order to perform the contract with TUV Reinland, the client may need to sign one or more contractal agreements with amore third party(es) and establish legal relationships with that those third party(es) according to such certain the contractal party of the contractal provided by the contractal party of the contractal

5.3

Performance periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding flowing confirmed as binding by TUV Rheinland in writing. It is investigated to the client of the provided of the periods of performance have been agreed, these periods shall not commence until the Arclies 5.1 and 5.2 also apply, even without express approval by the client, to all extensions of agreed periods/dates of performance not caused by TUV Rheinland. TUV Rheinlands in our responsible for a delay in performance, in periods if the client has not approved to the periods of the period of the periods of the periods of the periods of the period of the periods of the periods of the period of the period

performance. If the client is obliged to comply with legal, officially prescribed and/or by the accreditor prescribed deadlines, it is the client's responsibility to agree on performance dates with TUV Rhentland, which enable the client to comply with the legal and/or officially prescribed deadlines. TUV within specifically stating that ensuring the deadlines is the contractual obligation of TUV Rhentland. 5.6

The client's obligation to cooperate

The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.

Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:

It has required statutory qualifications;

It doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.

If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/certificates if any.

It he scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price last of TVD Rheinland wild at the time of performance. Unless otherwise agreed, work shall be invoiced according to the progress of the work. If he execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds £2,500.00 or equivalent value in local currency. TÜV Rheinland may demand payment on account or in instaliments.

7.2 7.3

8.3

Payment terms

All invoice amounts shall be due for payment within 30 days of the invoice date without deduction in receipt of the invoice. No discounts and rebates shall be granted. In receipt of the invoice, not expected the invoice and control of TDV Rhenfland as indicated on the invoice, stating the invoice and client numbers. In cases of default of payment, TDV Rhenland shall be entitled to claim default interest at the applicable short term loan interest rate publicly amounced by a reputable commercial bank in the bountry where TDV Rhenland short serves the right to claim further damages.

The provisions set to separe the transport of the invoice despite being granted a reasonable grace period. TDV Rhenland shall be entitled to cancel the controlate, whicheve the certificate, dain damages for non-performance and refuse to continue performance of the contract. The provisions set forth in article & shall also apply in cases involving returned cheques, cessastion of payment, commencement of insolvency proceedings against the client's assets or 8.4

ses in which the commencement of insolvency proceedings has been dismissed due to lack of

ons to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of

Objections to the invoices of TUV Knewnerus aprecipations are receiped of the invoices of TUV Knewnerus aprecipation and the control of the invoices. TUV Kneinland shall be entitled to demand set less eat the beginning of a month if overheads and/or purchase costs have increased. In this case, TUV Kneinland shall notify the client in writing of the rise in fees. This notification shall be issued one morth prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees remains under 5% exceeds 5% per contractual very the client shall be entitled to beminate the contract by the end of the period of notice of changes in fees, if the contract in otterminated, the changed fees shall be deemed to have been agreed upon by the time of the expiry of the notice period.

Only legally established and undisputed claims may be offset against claims by TÜV Rheinland. TÜV Rheinland shall have the right at all times to setoff any amount due or payable by the client, including but not limited to setoff against any fees paid by the client under any contracts, agreement and/or orders/quotations reached with TÜV Rheinland.

Any part of the work result ordered which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately. If acceptance is required or contractually agreed in an individual case, this shall be deemed to have basen place leve (2) weeks after competent and hardwork or of the work, unless that have been place leve (2) weeks after competent and hardwork or of the work, unless that Sherindand with the place had salling at least one fundamental breach of contract by TÜV.

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is not entitled to refuse acceptance due to insignificant breach of contract by TÜV

Rheidrad.

If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, he completion of the work shall take its place.

During the Follow-Audit stage, if the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdraw (e.g. performance of surrellinear equality, or if the client cancels or postpones a confirmed audit date within two (2) weeks before the agreed date, TÜV Rheinland is entitled to immediately chaige a fump—sum compensation of 10% of the coder the confirmance of the complex of t

Rheinland has incurred no damage whatsoever or only a cursorenauy www. www.np.
loader as the client has undertaken in the contract to accept services, TUV Rheinland shall also
be entitled to Antege lump-sum damages in the amount of 10% of the order amount as
compensation for expenses if the service is not called within one year after the order has been
placed. The client reserves the right to prove that the TUV Rheinland has incurred no damage
whatsoever or only a considerably lower damage than the above mentioned lump sum.

Confidentiality

For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expentise, information, dats, test resulfs, reports, rade secrets, documents, images, drawings, expentise, information, dats, test resulfs, reports, rade secrets, documents, images, drawings, expentise, information, dats, test resulfs, reports, rade and result of the control of the con

10.4

the receiving party afready possessed this information prior to disclosure by the disclosing party, the the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute 'confidential information' as defined in this confidentially clause. All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and/or (ii) or nequeste by the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party in writing, at any time if so requised by the disclosing party but at the latest and without special request after termination or expiry of the contract. This does not extend to include reports and certificates prepared for the client solely for the purpose of hilling the obligations under the contract, which shall remains with the client. However, TOV Rheinland is entitled to make preparing these reports and certificates in order to evidence the correctness of its results and for general documentation purposes required by laws, regulations and the requirements of working procedures of TOV Rheinland.

Copyrights and rights of use, publications

10.6

10.7

Copyrights and rights of use, publications
TÜV Rheindand ball retain all exclusive copyrights in the reports, expert reports/ciprions, test reports/re

on of work results.

Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulated in clause 11.2, and any guidation of the introduction of Besides, the client resurses that the afforceast use shall comply with relevant applicable less, regulations and relevant rules (including but not limited to specific applicable testing and certification rules, recules a crosp given approval according to clause 11.5 at any limited to the provided of the control of the contro

Liability of TÜV Rheinland

Trespective of the signal brain, in the fullest extent permitted by applicable law, in the over of a breach of a contractual abdigations or toot, the liability of TÜV Rheinland for all damages, losses and reimburnement of expenses and the contractual abdigations or toot, the liability of TÜV Rheinland for all damages, losses and reimburnement of expenses and the limited to; (i) in the case of a contract with a fixed overall lee, three times the overall feet for the entire contract, (ii) in the case of a contract with a fixed overall lee, three times the overall feet for the entire contract, (ii) in the case of a contract with a fixed overall lee, three times the overall feet for the entire contract, (iii) in the case of a framework agreement that provides for the possibility of placing individual orders, three times of the feet for the individual order under which the damages or losses have occurred, according to the freedom provisions exceeds 2.5 Million Euro or equivalented manual from the contract of the con

breach (researche) retreached versions and the personnel made available by the client to support TUV Rheinland in the personnel made available by the client to support TUV Rheinland in the performance of its services under the contract, unless such personnel made available is regraded as vicarious agent of TUV Rheinland ITUV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemently TUV Rheinland against any clients made by third prices arising from a Client shall indemently TUV Rheinland against any clients made by their other astings from a Client shall indement the Client shall be client to the Client shall be client shall be client to the Client shall be client s 12.5

When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and infermional export control law. When the provise that there are no obstacles to performance do a contract with the client is subject to the provise that there are no obstacles to performance due to national or international foreign trade legislations or embarges and/or sanctions, in the event of a violation, TÜV thereinand shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incord freed by TÜV.

Data protection notice

The client understands and agrees that TUV Rheinland processes personal data (including but not initiated to personal information) of the client and its related parties (including but not limited to personal information) of the client and its related parties (including but not limited to the supplier of the client) for the purpose of fulfilling this contract. The client confirms that it has process the personal data that the client confirms that it has process the personal data that the client collected or processed by tested and transferred to TUV Rheinland. For certain services, we may also process sensitive personal data. TUV Rheinland will use and process the data in accordance with the relevant legal basis. If any personal data has to be disclosed or transferred to any third party or any overseas party outside of the district in which the data is accordance with the privacy and personal data security related laws and regulations in China and the local country. TUV Rheinland will take measures to avoid any leadings, abuse, manipulation, diamage or unauthorized access of personal data. The personal data will be detend the following injection, right of processing limitation, right of objection, right of destination, right of processing limitation, right of objection, right of destination data by TUV Rheinland as the proconductivity. For thresh details on the processing of personal data by TUV Rheinland by e-mail at distapprotaching flux for details on the processing of personal data by TUV Rheinland by e-mail at distapprotaching flux forces on the post of the following address: TUV Rheinland by e-mail at distapprotaching flux forces on the following address: TUV Rheinland by e-mail at distapprotaching flux forces on the following address: TUV Rheinland by e-mail at distapprotaching flux forces on the following address: TUV Rheinland

Retention of test material and documentation

The test samples submitted by the client to TÜV Rheinland for testing will be scrapped following testing or will be returned to the client at the client's expense. The only exceptions are test samples, which are placed in storage on the basis of statutory regulations or of another samples, which are placed in storage on the basis of statutory regulations or of another client in the second second of the client in the properties of the client in the state and the samples are standing a test sample into storage will be disclosed to the client in the quotation. If reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples or documentations are given to the client to be placed in storage at their premises, the reference sensities of charge. If the client, in response to such a request, its recognition and popularity damage resulting from the respective testing and certification that is brought forward by the client against TÜV Rheinland shall be voided.

The retention period for the documentation shall be 10 (ten) years after the expiry of the test mark certification or shall meet the applicable legal requirements for EUEC certificatios of conformity.

The costs of the handower and dispatch of the test samples for storage on the client's permises are borne by the client. TUV Rheinland will be islable for the loss of test samples or reference samples from the laboratories or warehouses of TÜV Rheinrand only in case of gross negligence.

15.4

Termination of the contract

Neveltistanding clause 3.3 of the GTCB, TUV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services combined in one contract, each of the combined parts of the contract individually and independently of the continuation of the remaining encices with six (6) months motion to the end of the contractually agreed term. The notice period shall be abortered to air (6) weeks in case TUV Rheinland is prevented from performing the proposition of the contractivity of the contract

16.2

17.2.

within the scope of a certification procedure and the certificate therefore has to be withdrawn (for oxemple during the performance of monitoring audiols). Clause 163 applies accordingly.

Force Majeure

Force Majeure

Hardship
The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the

(b)

more onerous than could reasonably have been anticipated at the time of the conclusion of the Contract.

Companyage of the file clause, where a Party proves that:

The continued performance of its contractual distins has become excessively content of the contractual distins have become excessively contractual contractual distinct and the contract and that it could not reasonable have evided or overcome the event or its consequences, the Parties are bound, within a reasonable time of the conclusion of this Clause, to negotiate alternative contractual terms which neasonably allow to evercome the event or its consequences, the vent of the contractual terms which neasonably allow to evercome the consequences of the event. Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Parties have been affected in the Other Party. 18.3.

Partial invalidity, written form, place of jurisdiction and dispute resolution

Partial invalidity, written form, place of jurisdiction and dispute resolution.

All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1.

Should one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that grain escipates the contract and conditions shall be chosen following the rules as below:

If TUV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the less of the People's Republic of China.

ITUV Rheinland in question is legally registered and existing in Talwan, the contracting parameterly agree that the contract and these terms and conditions shall be governed by the laws of Talwan.

ITUV Rheinland in question is legally registered and existing in Hong Kong, the contracting it TUV Rheinland is the contract and these terms and conditions shall be governed by the laws of Hong Kong.

Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiations.

Unless otherwise stepulated in the contract, if no settlement or no agreement in respect of the Unless otherwise stepulated in the contract, and the contract of the stepulate of the contract, the dispute shall be submitted in the case of TUV Rheinland in question being legally registered and existing in the People's Republic of China, to China thermational Economic and Trade Arbitration Commission (CET AG) to be satisfied by arbitration under the Arbitration Russ of CETAC in lock when the arbitration is being. Shangkai, Shanthen or Changeing as appropriately chosen by the claiming party, in the case of TUV Rheinland to liquestion being legally registered and existing in Talwan, to Chinese Arbitration Association. Taple to be arbitrated in accordance with its then current Rules in the case of TUV Rheinland to liquestion period and existing in Talwan, to Chinese Arbitration Shangeign period and and existing in Talwan, to Chinese Arbitration Association. Taple to be settled by arbitration under the HKAC Administration carrier (HKAC) to be settled by arbitration under the HKAC Administrate rules. The arbitration shall take place in Hong Kong.





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紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.) 桃園市蘆竹區三德街54巷5號 (NO. 5, LANE 54, SANDE ST., LUJHU DISTRICT, TAOYUAN CITY 338, TAIWAN)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as):

送樣廠商(Sample Submitted By) : 紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.)

樣品名稱(Sample Name) : COPPER WIRE (裸銅線)

收件日(Sample Receiving Date) : 14-Oct-2022

測試期間(Testing Period) : 14-Oct-2022 to 21-Oct-2022

測試需求(Test Requested) : (1) 依據客戶指定,參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測

試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted

sample(s).)

(2) 依據客戶指定,測試鹵素-氟、氯、溴、碘。 (As specified by client, to test

Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample.)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

結 論(Conclusion) : (1) 根據客戶所提供的樣品,其錦、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP,

BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted

sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU)

2015/863 amending Annex II to Directive 2011/65/EU.)

Troy Chang / Department Malager
Signed for and on behalf of Arwan
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



IN CODE: 3C549C99



Test Report

號碼(No.): ETR22A02229 日期(Date): 21-Oct-2022 頁數(Page): 2 of 5

紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.) 桃園市蘆竹區三德街54巷5號 (NO. 5, LANE 54, SANDE ST., LUJHU DISTRICT, TAOYUAN CITY 338, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 銅色金屬線 (COPPER COLORED METAL WIRE)

測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-	參考IEC 62321-5: 2013,以感應耦合電	mg/kg	2	n.d.	100
43-9)	漿發射光譜儀分析。(With reference to				
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)		mg/kg	2	n.d.	1000
	performed by ICP-OES.)				
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-	參考IEC 62321-4: 2013+ AMD1: 2017 ·	mg/kg	2	n.d.	1000
97-6)	以感應耦合電漿發射光譜儀分析。(With				
	reference to IEC 62321-4: 2013+				
	AMD1: 2017, analysis was performed				
	by ICP-OES.)				
六價鉻 (Hexavalent Chromium) Cr(VI)	參考IEC 62321-7-1: 2015 · 以紫外光-可見光	μg/cm²	0.1	n.d.	-
(CAS No.: 18540-29-9) (#2)	分光光度計分析。(With reference to IEC				
	62321-7-1: 2015, analysis was performed by UV-VIS.)				
	5, 5, 1,6,	ma/ka	5	n.d.	
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	
四溴聯苯 (Tetrabromobiphenyl)		mg/kg mg/kg	5	n.d.	
五溴聯苯 (Pentabromobiphenyl)	參考IEC 62321-6: 2015,以氣相層析儀/		5	n.d.	
六溴聯苯 (Hexabromobiphenyl)	質譜儀分析。(With reference to IEC	mg/kg	5	n.d.	
七溴聯苯 (Heptabromobiphenyl)	62321-6: 2015, analysis was performed	mg/kg	5	n.d.	
八溴聯苯 (Octabromobiphenyl)	by GC/MS.)	mg/kg	5	n.d.	
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5		
		mg/kg		n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	1000
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000



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號碼(No.): ETR22A02229 日期(Date): 21-Oct-2022 頁數(Page): 3 of 5

紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.) 桃園市蘆竹區三德街54巷5號 (NO. 5, LANE 54, SANDE ST., LUJHU DISTRICT, TAOYUAN CITY 338, TAIWAN)

測試項目 (Test Items)	測試方法 (Method)	單位 (Unit)	MDL	結果 (Result)	限值 (Limit)
	(,	(51114)		No.1	, ,
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)	 参考IEC 62321-6: 2015·以氣相層析儀/	mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)	参考IEC 02521-0. 2013・以無相層が展/ 質譜儀分析・(With reference to IEC	mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)	62321-6: 2015, analysis was performed r by GC/MS.)	mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	ı	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7)	参考IEC 62321-8: 2017·以氣相層析儀/ 質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed	mg/kg	50	n.d.	1000
鄭苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2)		mg/kg	50	n.d.	1000
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5)		mg/kg	50	n.d.	1000
娜苯二甲酸二(2-乙基己基)酯 (DEHP) (Di- (2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7)		mg/kg	50	n.d.	1000
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8)	參考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537- 15-1)	參考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097- 32-2)	參考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)	參考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-



Test Report

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紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.) 桃園市蘆竹區三德街54巷5號 (NO. 5, LANE 54, SANDE ST., LUJHU DISTRICT, TAOYUAN CITY 338, TAIWAN)

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. (#2) =
 - a. 當六價鉻結果大於 $0.13~\mu g/cm^2$ ·表示樣品表層含有六價鉻。(The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13~\mu g/cm^2$. The sample coating is considered to contain Cr(VI).) b. 當六價鉻結果為n.d. (濃度小於 $0.10~\mu g/cm^2$)·表示表層不含六價鉻。(The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-Cr(VI) based coating) c. 當六價鉻結果介於0.10~D0.13 $\mu g/cm^2$ 時·無法確定塗層是否含有六價鉻。(The result between $0.10~\mu g/cm^2$ and $0.13~\mu g/cm^2$ is considered to be inconclusive unavoidable coating variations may influence the determination.)
- 6. 除非另有說明,參照ILAC-G8:09/2019,採用簡單二元(w=0)允收規則進行符合性判定;根據此規則,符合性結果之 判定係以測試結果與限值做比較。(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)



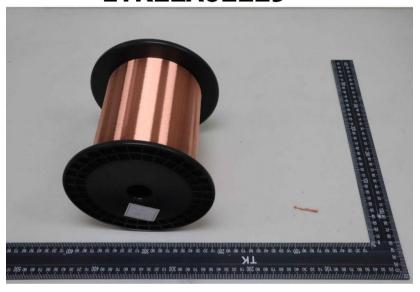
Test Report

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紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.) 桃園市蘆竹區三德街54巷5號 (NO. 5, LANE 54, SANDE ST., LUJHU DISTRICT, TAOYUAN CITY 338, TAIWAN)

* 照片中如有箭頭標示 · 則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR22A02229



** 報告結尾 (End of Report) **





Test Report

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紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.) 桃園市蘆竹區三德街54巷5號 (NO. 5, LANE 54, SANDE ST., LUJHU DISTRICT, TAOYUAN CITY 338, TAIWAN)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as):

送樣廠商(Sample Submitted By) : 紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.)

樣品名稱(Sample Name) : TINNED COPPER WIRE (鍍錫銅線)

收件日(Sample Receiving Date) : 14-Oct-2022

測試期間(Testing Period) : 14-Oct-2022 to 21-Oct-2022

測試需求(Test Requested) : (1) 依據客戶指定,參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測

試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted

sample(s).)

(2) 依據客戶指定,測試鹵素-氟、氯、溴、碘。 (As specified by client, to test

Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample.)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

結 論(Conclusion) : (1) 根據客戶所提供的樣品,其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP,

BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted

sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU)

2015/863 amending Annex II to Directive 2011/65/EU.)

Troy Chang / Department Malager
Signed for and on behalf of Alwah
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 41543629



Test Report

號碼(No.): ETR22A02228 日期(Date): 21-Oct-2022 頁數(Page): 2 of 5

紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.) 桃園市蘆竹區三德街54巷5號 (NO. 5, LANE 54, SANDE ST., LUJHU DISTRICT, TAOYUAN CITY 338, TAIWAN)

測試部位敘述 (Test Part Description)

No.1 : 銀色金屬線 (含鍍層) (SILVER COLORED METAL WIRE (INCLUDING THE PLATING LAYER))

測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-	參考IEC 62321-5: 2013,以感應耦合電	mg/kg	2	n.d.	100
43-9)	漿發射光譜儀分析。(With reference to				
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)		mg/kg	2	n.d.	1000
	performed by ICP-OES.)				
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-	參考IEC 62321-4: 2013+ AMD1: 2017 ·	mg/kg	2	n.d.	1000
97-6)	以感應耦合電漿發射光譜儀分析。(With				
	reference to IEC 62321-4: 2013+				
	AMD1: 2017, analysis was performed				
	by ICP-OES.)				
六價鉻 (Hexavalent Chromium) Cr(VI)	參考IEC 62321-7-1: 2015 · 以紫外光-可見光	μg/cm²	0.1	n.d.	-
(CAS No.: 18540-29-9) (#2)	分光光度計分析。(With reference to IEC				
	62321-7-1: 2015, analysis was performed by UV-VIS.)				
	5, 5, 1,6,	ma/ka	5	n.d.	
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	
四溴聯苯 (Tetrabromobiphenyl)		mg/kg mg/kg	5	n.d.	
五溴聯苯 (Pentabromobiphenyl)	參考IEC 62321-6: 2015,以氣相層析儀/		5	n.d.	
六溴聯苯 (Hexabromobiphenyl)	質譜儀分析。(With reference to IEC	mg/kg	5	n.d.	
七溴聯苯 (Heptabromobiphenyl)	62321-6: 2015, analysis was performed	mg/kg	5	n.d.	
八溴聯苯 (Octabromobiphenyl)	by GC/MS.)	mg/kg	5	n.d.	
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5		
		mg/kg		n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	1000
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000



Test Report

號碼(No.): ETR22A02228 日期(Date): 21-Oct-2022 頁數(Page): 3 of 5

紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.) 桃園市蘆竹區三德街54巷5號 (NO. 5, LANE 54, SANDE ST., LUJHU DISTRICT, TAOYUAN CITY 338, TAIWAN)

(Method) (Unit) (Result) (Imit) (Result) (Imit) (No.1	測試項目	測試方法	單位	MDL	結果	限值
一演聯苯醚 (Monobromodiphenyl ether) □演聯苯醚 (Dibromodiphenyl ether) □演聯苯醚 (Tetrabromodiphenyl ether) □演聯苯醚 (Pentabromodiphenyl ether) □演聯苯醚 (Pentabromodiphenyl ether) □演聯苯醚 (Pentabromodiphenyl ether) □演聯苯醚 (Hexabromodiphenyl ether) □演聯苯醚 (Octabromodiphenyl ether) □演聯苯醚 (Octabromodiphenyl ether) □演聯苯醚 (Nonabromodiphenyl ether) □海聯苯醚 (Nonabromodiphenyl ether) □海聯苯 (Nonabromodiphenyl ether) □海聯末 (Nonabromodiphenyl ether) □海 (Nonab	(Test Items)	(Method)	(Unit)		(Result)	(Limit)
三溴聯苯醚 (Dibromodiphenyl ether) 一つ					No.1	
三演聯苯酸 (Tribromodiphenyl ether) 四溴聯苯酸 (Tetrabromodiphenyl ether) 大演聯苯酸 (Pentabromodiphenyl ether) 大演聯苯酸 (Pentabromodiphenyl ether) 大演聯苯酸 (Pentabromodiphenyl ether) 大演聯苯酸 (Petrabromodiphenyl ether) 大演聯苯酸 (Octabromodiphenyl ether) 大演聯苯酸 (Octabromodiphenyl ether) 大演聯苯酸 (Nonabromodiphenyl ether) 大演聯苯酸 (Nonabromodiphenyl ether) 大演聯苯酸 (Docabromodiphenyl ether) 大演聯苯酸 (Docabromodiphenyl ether) 大演聯苯酸 (Docabromodiphenyl ether) 大演聯苯酸 (Docabromodiphenyl ether) 大演聯苯面 (BBP) (CAS No.: 85-68-7) 排產工甲酸丁苯甲酯 (BBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2) 禁者工甲酸二丁酯 (DBP) (CAS No.: 84-74-2) 排產工甲酸二氢丁酯 (DBP) (Dibutyl phthalate (DIBP)) (CAS No.: 84-69-5) 排產工甲酸二乙二基己基丙 (DEHP) (Dic (2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7) 第 (F) (Fluorine (F)) (CAS No.: 14762-94 8) **考BS EN 14582: 2016 · 以離子層析像 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) **考BS EN 14582: 2016 · 以離子層析像 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) **考BS EN 14582: 2016 · 以離子層析像 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) **考BS EN 14582: 2016 · 以離子層析像 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) **考BS EN 14582: 2016 · 以離子層析像 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) **考BS EN 14582: 2016 · 以離子層析像 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) **考BS EN 14582: 2016 · 以離子層析像 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) **考BS EN 14582: 2016 · 以離子層析像 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) **考BS EN 14582: 2016 · 以離子層析像 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) **考BS EN 14582: 2016 · 以離子層析像 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) **考BS EN 14582: 2016 · 以離子層析像 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) ***********************************	一溴聯苯醚 (Monobromodiphenyl ether)	r	mg/kg	5	n.d.	-
図演聯苯醚 (Tetrabromodiphenyl ether) 表表 EC 62321-6: 2015 - 以氣相層析儀/ 質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.) 表表 Mg/kg 5 n.d. - mg/kg 5 n.d. 1000 mg/kg 5	二溴聯苯醚 (Dibromodiphenyl ether)	r	mg/kg	5	n.d.	-
接触性	三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	-
質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.) 「演聯苯醚 (Hexabromodiphenyl ether) 大演聯苯醚 (Nonabromodiphenyl ether) 大演聯苯 (Nonabromodiphenyl ether) 大演聯苯 (Nonabromodiphenyl ether) 大演聯苯 (Nonabromodiphenyl ether) 大演聯苯 (Nonabromodiphenyl ether) 大演 (Nonabromodiphenyl ether) 大家 (Non	四溴聯苯醚 (Tetrabromodiphenyl ether)	参考IEC 62321-6: 2015 · 以氣相層析儀/ 質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.) m m m m	mg/kg	5	n.d.	-
System	五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	-
Yamar	六溴聯苯醚 (Hexabromodiphenyl ether)	,	mg/kg	5	n.d.	-
八泉聯苯醚 (Nonabromodiphenyl ether)	七溴聯苯醚 (Heptabromodiphenyl ether)	by GC/MS.)	mg/kg	5	n.d.	-
大海聯苯醚 (Decabromodiphenyl ether) 多溴聯苯醚總和 (Sum of PBDEs) mg/kg	八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	-
多漢聯苯離總和 (Sum of PBDEs)	九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
## 第二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) (CAS No.: 85-68-7) ## 第二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2) ## 第二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5) ## 第二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7) ## 第 (F) (Fluorine (F)) (CAS No.: 14762-94-8) ## 8	十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	-
phthalate (BBP)) (CAS No.: 85-68-7) 鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) (CAS No.: 84-74-2) 鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) (CAS No.: 84-69-5) 鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7) 氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8) (CI) (Chlorine (CI)) (CAS No.: 22537-15-1) 第 (CI) (Chlorine (CI)) (CAS No.: 10097-32-2) (関 (Br) (Bromine (Br)) (CAS No.: 10097-32-2) (陳 (I) (Iodine (I)) (CAS No.: 14362-44-8) (基本) (With reference to BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) (基本) (With reference to BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) (基本) (With reference to BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) (基本) (With reference to BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) (基本) (With reference to BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) (基本) (With reference to BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)	多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	-	n.d.	1000
### 一	鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl		mg/kg	50	n.d.	1000
phthalate (DBP)) (CAS No.: 84-74-2) 響考IEC 62321-8: 2017 · 以氣相層析像/ 質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by G2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7) 第(F) (Fluorine (F)) (CAS No.: 14762-94-8) 多考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) 多考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) ②	1					
開発	` ' ' `	 	mg/kg	50	n.d.	1000
Max		•				
## (DisP) (CAS No.: 84-69-5)	` ' '	,	mg/kg	50	n.d.	1000
##本_一甲酸_(Z-乙基己基)酯 (DEHP) (DI-(2-ethylhexyl) phthalate (DEHP)) (CAS No.: 117-81-7) 第 (F) (Fluorine (F)) (CAS No.: 14762-94-8) 参考BS EN 14582: 2016・以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) 第 (CI) (Chlorine (CI)) (CAS No.: 22537-15-1) 参考BS EN 14582: 2016・以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) ② (Br) (Bromine (Br)) (CAS No.: 10097-32-2) 参考BS EN 14582: 2016・以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) ② (With reference to BS EN 14582: 2016・以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) ② 考BS EN 14582: 2016・以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)		, , , , ,				
No.: 117-81-7) 氟 (F) (Fluorine (F)) (CAS No.: 14762-94- 参考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) 氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537- 参考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) 溴 (Br) (Bromine (Br)) (CAS No.: 10097- 参考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) 碘 (I) (lodine (I)) (CAS No.: 14362-44-8) 参考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) փ (I) (lodine (I)) (CAS No.: 14362-44-8) 参考BS EN 14582: 2016 · 以離子層析儀 分析。(With reference to BS EN 14582: 2016 · 以離子層析像 分析。(With reference to BS EN 14582: 2016 · 以離子層析像		Tby GC/MS.)	mg/kg	50	n.d.	1000
無 (F) (Fluorine (F)) (CAS No.: 14762-94- 参考BS EN 14582: 2016・以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) 気 (CI) (Chlorine (CI)) (CAS No.: 22537- 参考BS EN 14582: 2016・以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) 溴 (Br) (Bromine (Br)) (CAS No.: 10097- 参考BS EN 14582: 2016・以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) 碘 (I) (Iodine (I)) (CAS No.: 14362-44-8) 参考BS EN 14582: 2016・以離子層析儀分析。(With reference to BS EN 14582: 2016・以離子層析像分析。(With reference to BS EN 14582: 2016・以離	1					
8) 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)						
2016, analysis was performed by IC.) 氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537- 参考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) 溴 (Br) (Bromine (Br)) (CAS No.: 10097- 参考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.) 碘 (I) (lodine (I)) (CAS No.: 14362-44-8) 参考BS EN 14582: 2016 · 以離子層析儀分析。(With reference to BS EN 14582: 2016 · 以離子層析像分析。(With reference to BS EN 14582: 2016 · 以離子層析像			mg/kg	50	n.d.	-
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537- 15-1)	8)	,				
15-1) 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)						
2016, analysis was performed by IC.) 注 (Br) (Bromine (Br)) (CAS No.: 10097-	* * * * * * * * * * * * * * * * * * * *		mg/kg	50	n.d.	-
溴 (Br) (Bromine (Br)) (CAS No.: 10097- 32-2)	15-1)	,				
32-2) 分析。(With reference to BS EN 14582: 2016, analysis was performed by IC.)		2016, analysis was performed by IC.)				
2016, analysis was performed by IC.)	溴 (Br) (Bromine (Br)) (CAS No.: 10097-	參考BS EN 14582: 2016 · 以離子層析儀	mg/kg	50	n.d.	-
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8) 参考BS EN 14582: 2016·以離子層析儀 mg/kg 50 n.d 分析。(With reference to BS EN 14582:	32-2)	分析。(With reference to BS EN 14582:				
分析。(With reference to BS EN 14582:		2016, analysis was performed by IC.)				
分析。(With reference to BS EN 14582:	碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)	參考BS EN 14582: 2016 · 以離子層析儀	mg/kg	50	n.d.	-
		分析。(With reference to BS EN 14582:				
2016, analysis was performed by IC.)		2016, analysis was performed by IC.)				



Test Report

號碼(No.): ETR22A02228 日期(Date): 21-Oct-2022 頁數(Page): 4 of 5

紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.) 桃園市蘆竹區三德街54巷5號 (NO. 5, LANE 54, SANDE ST., LUJHU DISTRICT, TAOYUAN CITY 338, TAIWAN)

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. (#2) =
 - a. 當六價鉻結果大於 $0.13~\mu g/cm^2$ ·表示樣品表層含有六價鉻。(The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13~\mu g/cm^2$. The sample coating is considered to contain Cr(VI).) b. 當六價鉻結果為n.d. (濃度小於 $0.10~\mu g/cm^2$)·表示表層不含六價鉻。(The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-Cr(VI) based coating) c. 當六價鉻結果介於0.10~D0.13 $\mu g/cm^2$ 時·無法確定塗層是否含有六價鉻。(The result between $0.10~\mu g/cm^2$ and $0.13~\mu g/cm^2$ is considered to be inconclusive unavoidable coating variations may influence the determination.)
- 6. 除非另有說明,參照ILAC-G8:09/2019,採用簡單二元(w=0)允收規則進行符合性判定;根據此規則,符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)



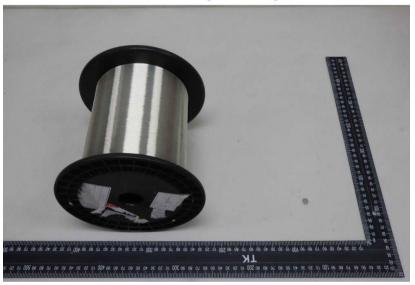
Test Report

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紅帥工業股份有限公司 (HONG SHUAY INDUSTRIAL CO., LTD.) 桃園市蘆竹區三德街54巷5號 (NO. 5, LANE 54, SANDE ST., LUJHU DISTRICT, TAOYUAN CITY 338, TAIWAN)

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR22A02228



** 報告結尾 (End of Report) **





Test Report

號碼(No.): ETR23203410 日期(Date): 18-Feb-2023 頁數(Page): 1 of 7

唯紘塑膠工業有限公司 (WEI HONG PLASTICS INDUSTRIAL CO., LTD.) 新北市樹林區東園里田尾街139巷3號 (NO. 3, LANE 139, TIEN WEI ST., SHULING DIST., NEW TAIPEI CITY)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as):

送樣廠商(Sample Submitted By) : 唯紘塑膠工業有限公司 (WEI HONG PLASTICS INDUSTRIAL CO., LTD.)

收件日(Sample Receiving Date) : 13-Feb-2023

測試期間(Testing Period) : 13-Feb-2023 to 18-Feb-2023

測試需求(Test Requested) : 依據客戶指定,參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測

試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and

amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI) PRRs. PRDES. DRP. RRP. DEHP. DIRP. contents in the submitted

Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted

sample(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

結論(Conclusion) · 根據客戶所提供的樣品,其錦、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP,

BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU)

2015/863之限值要求。 (Based on the performed tests on submitted

sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU)

2015/863 amending Annex II to Directive 2011/65/EU.)

Troy Chang / Department Malager Signed for and on behalf of SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 6850FD30



Test Report

號碼(No.): ETR23203410 日期(Date): 18-Feb-2023 頁數(Page): 2 of 7

唯紘塑膠工業有限公司 (WEI HONG PLASTICS INDUSTRIAL CO., LTD.) 新北市樹林區東園里田尾街139巷3號 (NO. 3, LANE 139, TIEN WEI ST., SHULING DIST., NEW TAIPEI CITY)

測試部位敘述 (Test Part Description)

No.1 : 白色塑膠粒 (WHITE PLASTIC PELLETS)

測試結果 (Test Results)

測試項目 /Tast Hams)	測試方法	單位 (Unit)	MDL	結果 (Result)	限值
(Test Items)	(Method)	(Unit)		No.1	(Limit)
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013 · 以感應耦合電 漿發射光譜儀分析。(With reference to	mg/kg	2	n.d.	100
鉛 (Pb) (Lead (Pb))	IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	2.52	1000
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017 · 以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI))	參考IEC 62321-7-2: 2017·以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	1000
一溴聯苯 (Monobromobiphenyl)		mg/kg	5	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)	┃ ┃ ┃	mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)	質譜儀分析。(With reference to IEC	mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)	62321-6: 2015, analysis was performed	mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)	IDZ 3Z 1-0. ZU 13. AHAIVSIS WAS DEHUHHEU 🛏	mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)	by GC/1813./	mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	=
多溴聯苯總和 (Sum of PBBs)		mg/kg		n.d.	1000



Test Report

號碼(No.): ETR23203410 日期(Date): 18-Feb-2023 頁數(Page): 3 of 7

唯紘塑膠工業有限公司 (WEI HONG PLASTICS INDUSTRIAL CO., LTD.) 新北市樹林區東園里田尾街139巷3號 (NO. 3, LANE 139, TIEN WEI ST., SHULING DIST., NEW TAIPEI CITY)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
一溴聯苯醚 (Monobromodiphenyl ether)	參考IEC 62321-6: 2015·以氣相層析儀/ 質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	=
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	=
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	=
六溴聯苯醚 (Hexabromodiphenyl ether)		mg/kg	5	n.d.	=
七溴聯苯醚 (Heptabromodiphenyl ether)		mg/kg	5	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	=
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	=
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	=
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	ı	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl		mg/kg	50	n.d.	1000
phthalate (BBP))					
鄰苯二甲酸二丁酯 (DBP) (Dibutyl	參考IEC 62321-8: 2017,以氣相層析儀/	mg/kg	50	n.d.	1000
phthalate (DBP))	質譜儀分析。(With reference to IEC				
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl	62321-8: 2017, analysis was performed	mg/kg	50	n.d.	1000
phthalate (DIBP))	by GC/MS.)				
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-		mg/kg	50	n.d.	1000
(2-ethylhexyl) phthalate (DEHP))					

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. 除非另有說明,參照ILAC-G8:09/2019,採用簡單二元(w=0)允收規則進行符合性判定;根據此規則,符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)



Test Report

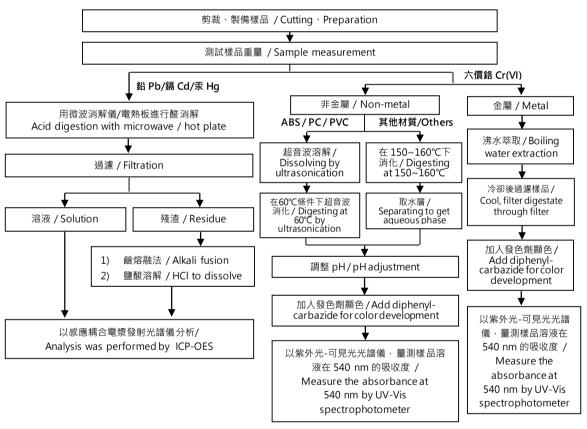
號碼(No.): ETR23203410 日期(Date): 18-Feb-2023 頁數(Page): 4 of 7

唯紘塑膠工業有限公司 (WEI HONG PLASTICS INDUSTRIAL CO., LTD.) 新北市樹林區東園里田尾街139巷3號 (NO. 3, LANE 139, TIEN WEI ST., SHULING DIST., NEW TAIPEI CITY)

重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)



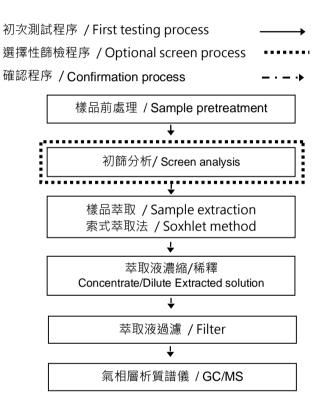


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唯紘塑膠工業有限公司 (WEI HONG PLASTICS INDUSTRIAL CO., LTD.) 新北市樹林區東園里田尾街139巷3號 (NO. 3, LANE 139, TIEN WEI ST., SHULING DIST., NEW TAIPEI CITY)

多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs





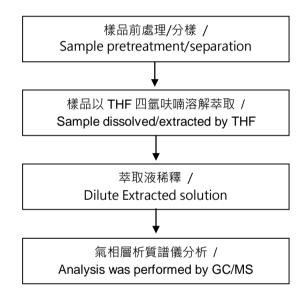
Test Report

號碼(No.): ETR23203410 日期(Date): 18-Feb-2023 頁數(Page): 6 of 7

唯紘塑膠工業有限公司 (WEI HONG PLASTICS INDUSTRIAL CO., LTD.) 新北市樹林區東園里田尾街139巷3號 (NO. 3, LANE 139, TIEN WEI ST., SHULING DIST., NEW TAIPEI CITY)

可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】





Test Report

號碼(No.): ETR23203410 日期(Date): 18-Feb-2023 頁數(Page): 7 of 7

唯紘塑膠工業有限公司 (WEI HONG PLASTICS INDUSTRIAL CO., LTD.) 新北市樹林區東園里田尾街139巷3號 (NO. 3, LANE 139, TIEN WEI ST., SHULING DIST., NEW TAIPEI CITY)

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR23203410



** 報告結尾 (End of Report) **





Test Report

號碼(No.): ETR22504445 日期(Date): 31-May-2022 頁數(Page): 1 of 9

泓道膠業股份有限公司 (HORING DAO RUBBER CO., LTD) 新北市八里區忠孝路179號 (NO. 179, ZHONGXIAO RD., BALI DIST., NEW TAIPEI CITY 249-44, TAIWAN (R. O. C.))

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as):

送樣廠商(Sample Submitted By)

: 泓道膠業股份有限公司 (HORING DAO RUBBER CO., LTD)

樣品名稱(Sample Name)

: SILICONE RUBBER

樣品型號(Style/Item No.)

: RBB-66XX-X0, RBB-2003-X0, RBB-2100-X0, SH 745U, SH 52U, RBB-288X-X0,

RBB-2400-X0, RBB-2210-X0, SH 747U, SH 82UD, RBB-6300-X0, RBB-2420-X0,

RBB-2030-X0, SH 748U

收件日(Sample Receiving Date)

: 25-May-2022

測試期間(Testing Period)

: 25-May-2022 to 31-May-2022

測試需求(Test Requested)

(1) 依據客戶指定、參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試 鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

(2) 依據客戶指定,測試鹵素-氟、氯、溴、碘。 (As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample.)

測試結果(Test Results)

請參閱下一頁 (Please refer to following pages.)

結 論(Conclusion)

1) 根據客戶所提供的樣品·其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

Troy Chang / Department Makager
Signed for and on behalf of Alwand
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: BOOBC4F



Test Report

號碼(No.): ETR22504445 日期(Date): 31-May-2022 頁數(Page): 2 of 9

泓道膠業股份有限公司 (HORING DAO RUBBER CO., LTD) 新北市八里區忠孝路179號 (NO. 179, ZHONGXIAO RD., BALI DIST., NEW TAIPEI CITY 249-44, TAIWAN (R. O. C.))

測試部位敘述 (Test Part Description)

No.1 : 白色塊狀 (WHITE LUMP)

測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-43-9)	参考IEC 62321-5: 2013・以感應耦合電漿發射 **	mg/kg	2	n.d.	100
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-97-6)	參考IEC 62321-4: 2013+ AMD1: 2017 · 以感應 耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000
六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI)) (CAS No.: 18540-29-9)	參考IEC 62321-7-2: 2017·以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	1000
一溴聯苯 (Monobromobiphenyl)		mg/kg	5	n.d.	=
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)	参考IEC 62321-6: 2015·以氣相層析儀/質譜儀	mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)		mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)	分析。(With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)	analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000



Test Report

號碼(No.): ETR22504445 日期(Date): 31-May-2022 頁數(Page): 3 of 9

泓道膠業股份有限公司 (HORING DAO RUBBER CO., LTD) 新北市八里區忠孝路179號 (NO. 179, ZHONGXIAO RD., BALI DIST., NEW TAIPEI CITY 249-44, TAIWAN (R. O. C.))

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	ı
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)	參考IEC 62321-6: 2015·以氣相層析儀/質譜儀	mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)	分析。(With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)	analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	1	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl		mg/kg	50	n.d.	1000
phthalate (BBP)) (CAS No.: 85-68-7)					
鄰苯二甲酸二丁酯 (DBP) (Dibutyl		mg/kg	50	n.d.	1000
phthalate (DBP)) (CAS No.: 84-74-2)	參考IEC 62321-8: 2017·以氣相層析儀/質譜儀				
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl	分析。(With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
phthalate (DIBP)) (CAS No.: 84-69-5)	analysis was performed by GC/MS.)				
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-		mg/kg	50	n.d.	1000
(2-ethylhexyl) phthalate (DEHP)) (CAS					
No.: 117-81-7)					
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-		mg/kg	50	n.d.	-
8)					
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-	 参考BS EN 14582: 2016 · 以離子層析儀分析。	mg/kg	50	n.d.	-
15-1)	(With reference to BS EN 14582: 2016,				
溴 (Br) (Bromine (Br)) (CAS No.: 10097-	analysis was performed by IC.)	mg/kg	50	n.d.	-
32-2)	, -, -, -,				
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-



Test Report

號碼(No.): ETR22504445 日期(Date): 31-May-2022 頁數(Page): 4 of 9

泓道膠業股份有限公司 (HORING DAO RUBBER CO., LTD) 新北市八里區忠孝路179號 (NO. 179, ZHONGXIAO RD., BALI DIST., NEW TAIPEI CITY 249-44, TAIWAN (R. O. C.))

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. 除非另有說明,參照ILAC-G8:09/2019,採用簡單二元(w=0)允收規則進行符合性判定;根據此規則,符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)



Test Report

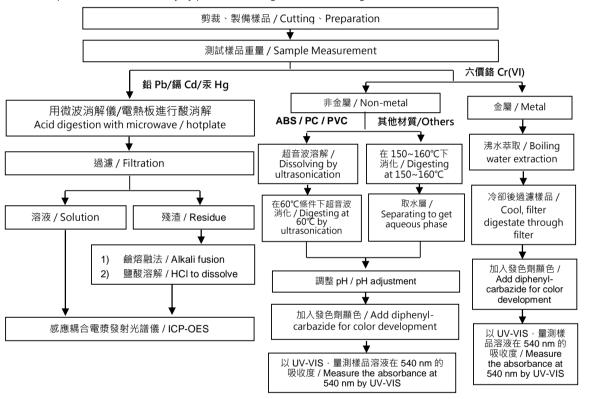
號碼(No.): ETR22504445 日期(Date): 31-May-2022 頁數(Page): 5 of 9

泓道膠業股份有限公司 (HORING DAO RUBBER CO., LTD) 新北市八里區忠孝路179號 (NO. 179, ZHONGXIAO RD., BALI DIST., NEW TAIPEI CITY 249-44, TAIWAN (R. O. C.))

重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)



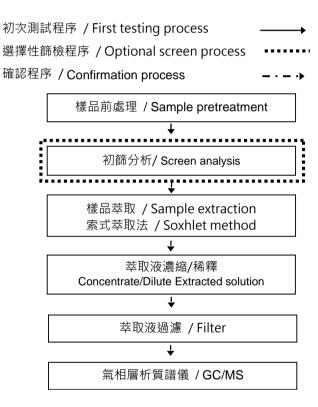


Test Report

號碼(No.): ETR22504445 日期(Date): 31-May-2022 頁數(Page): 6 of 9

泓道膠業股份有限公司 (HORING DAO RUBBER CO., LTD) 新北市八里區忠孝路179號 (NO. 179, ZHONGXIAO RD., BALI DIST., NEW TAIPEI CITY 249-44, TAIWAN (R. O. C.))

多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs





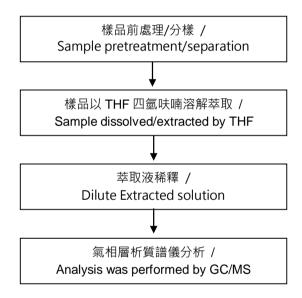
Test Report

號碼(No.): ETR22504445 日期(Date): 31-May-2022 頁數(Page): 7 of 9

泓道膠業股份有限公司 (HORING DAO RUBBER CO., LTD) 新北市八里區忠孝路179號 (NO. 179, ZHONGXIAO RD., BALI DIST., NEW TAIPEI CITY 249-44, TAIWAN (R. O. C.))

可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】



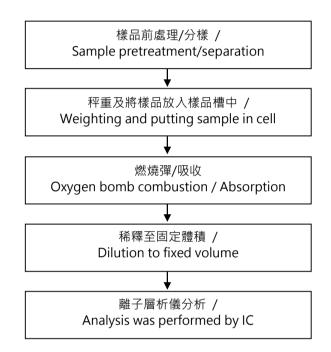


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號碼(No.): ETR22504445 日期(Date): 31-May-2022 頁數(Page): 8 of 9

泓道膠業股份有限公司 (HORING DAO RUBBER CO., LTD) 新北市八里區忠孝路179號 (NO. 179, ZHONGXIAO RD., BALI DIST., NEW TAIPEI CITY 249-44, TAIWAN (R. O. C.))

鹵素分析流程圖 / Analytical flow chart - Halogen





Test Report

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泓道膠業股份有限公司 (HORING DAO RUBBER CO., LTD) 新北市八里區忠孝路179號 (NO. 179, ZHONGXIAO RD., BALI DIST., NEW TAIPEI CITY 249-44, TAIWAN (R. O. C.))

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR22504445



** 報告結尾 (End of Report) **



Report No.: 238550813k8 001 Page 1 of 6

Client: CHIMEI Corporation

No.398, Sec. 1, Zhongzheng Rd., Rende Dist., Tainan City 717010, Taiwan,

R.O.C.

Test item(s): POLYCARBONATE

Identification/Model No(s): WONDERLITE® PC-110U

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample receiving date: 2022-12-02

Testing period: 2022-12-02 – 2023-01-03

Place of testing: TÜV Rheinland (Shanghai) Co. Ltd.

Test specification: Test result:

According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment Directive (EU) 2015/863: Total Content of Lead, Cadmium, Mercury, Chromium VI, Polybrominated Biphenyls, Polybrominated Diphenyl Ethers; and Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Bis(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP)

Halogen (Fluorine, Chlorine, Bromine, Iodine)

Refer to result page

Pass

Other information: Refers to TÜV test report no.: 238550813k6 001.

For and on behalf of TÜV Rheinland Taiwan Ltd.

2023-01-03 Arthur Cheng/Project Manager
Date Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/gm-gcn/) describes the statement of conformation.

"Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.



Test Report No.: 238550813k8 001 Page 2 of 6

Test Method : Total Cadmium, Lead, Mercury, Chromium

- Ref. to IEC 62321-4:2013 and IEC 62321-5:2013

Chromium (VI)

- For Metal material - Ref. to IEC 62321-7-1:2015

- For Plastic or Electronic material - Ref. to IEC 62321-7-2:2017

- For Leather material - Ref. to EN ISO 17075-1:2017

PBBs, PBDEs - Ref. to IEC 62321-6:2015

Sample		RL	WONDERLITE® PC-110U
Material			plastic/transparent
LabNo.			TCL221202-96
Cadmium (Cd)	mg/kg	2	< RL
Lead (Pb)	mg/kg	2	< RL
Mercury (Hg)	mg/kg	2	< RL
Chromium VI (Cr VI)*	mg/kg	8	< RL
Sum of Polybrominated	mg/kg		< RL
biphenyls (PBBs)	ilig/kg	•	
Monobromobiphenyl	mg/kg	5	< RL
Dibromobiphenyl	mg/kg	5	< RL
Tribromobiphenyl	mg/kg	5	< RL
Tetrabromobiphenyl	mg/kg	5	< RL
Pentabromobiphenyl	mg/kg	5	< RL
Hexabromobiphenyl	mg/kg	5	< RL
Heptabromobiphenyl	mg/kg	5	< RL
Octabromobiphenyl	mg/kg	5	< RL
Nonabromobiphenyl	mg/kg	5	< RL
Decabromobiphenyl	mg/kg	5	< RL
Sum of Polybrominated diphenyl ethers (PBDEs)	mg/kg	-	< RL
Monobromodiphenyl ether	mg/kg	5	< RL
Dibromodiphenyl ether	mg/kg	5	< RL
Tribromodiphenyl ether	mg/kg	5	< RL
Tetrabromodiphenyl ether	mg/kg	5	< RL
Pentabromodiphenyl ether	mg/kg	5	< RL
Hexabromodiphenyl ether	mg/kg	5	< RL
Heptabromodiphenyl ether	mg/kg	5	< RL
Octabromodiphenyl ether	mg/kg	5	< RL
Nonabromodiphenyl ether	mg/kg	5	< RL
Decabromodiphenyl ether	mg/kg	5	< RL

Notes:

- < = less than
- RL = Reporting Limit
- n.a. = not applicable
- mg/kg = milligram per kilogram
- * Once the total Cr content in metal/ plastic or electronic sample is found to be exceeded the limit, the Cr (VI) content will be confirmed with reference to IEC 62321-7-1:2015/ IEC 62321-7-2:2017

	Cd	Cr(VI)	Pb	Hg	PBBs	PBDEs
Maximum permissible Limit acc. to 2011/65/EU (mg/kg)	100	1000	1000	1000	1000	1000



Test Report No.: 238550813k8 001 Page 3 of 6

Test Method : BBP/DBP/DEHP/DIBP - Ref. to IEC 62321-8:2017

Halogen - Following EN 14582; determination by I.C.

Sample		RL	WONDERLITE® PC-110U
Material			plastic/transparent
LabNo.			TCL221202-96
Benzylbutylphthalate (BBP)	mg/kg	50	< RL
Dibutylphthalate (DBP)	mg/kg	50	< RL
Diethylhexylphthalate (DEHP)	mg/kg	50	< RL
Diisobutylphthalate (DIBP)	mg/kg	50	< RL

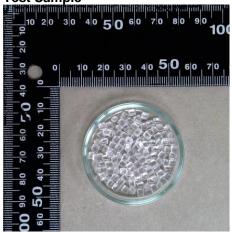
	BBP	DBP	DEHP	DIBP
Maximum permissible				
Limit acc. to (EU) 2015/863	1000	1000	1000	1000
(mg/kg)				

Sample Material			WONDERLITE® PC-110U plastic/transparent
LabNo.			TCL221202-96
Halogen	Unit	RL	Result
Fluorine (F)	mg/kg	50	< RL
Chlorine (CI)	mg/kg	50	< RL
Bromine (Br)	mg/kg	50	< RL
Iodine (I)	mg/kg	50	< RL

Notes:

- < = less than
- RL = Reporting Limit
- n.a. = not applicable
- mg/kg = milligram per kilogram

Test Sample

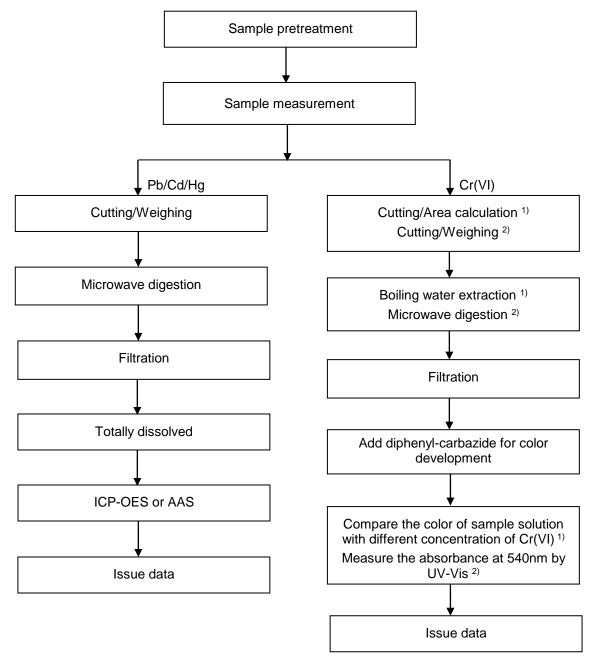




Test Report No.: 238550813k8 001 Page 4 of 6

Testing procedure:

RoHS (Pb, Cd, Hg, Cr(VI))



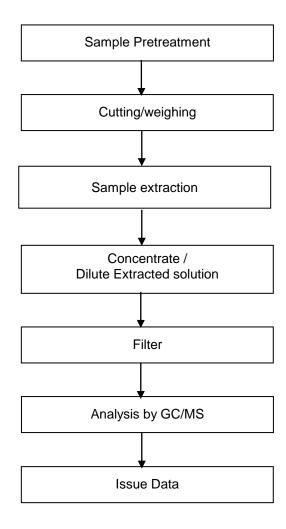
Notes: 1) For metallic material
2) For non-metallic material



Test Report No.: 238550813k8 001 Page 5 of 6

Testing procedure:

RoHS (PBBs/PBDEs, DEHP/DBP/BBP/DIBP)

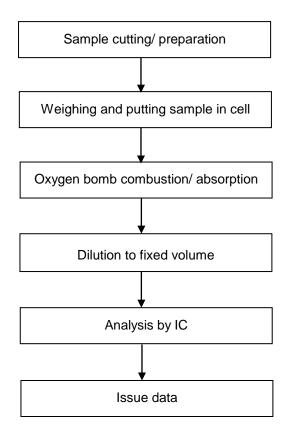




Test Report No.: 238550813k8 001 Page 6 of 6

Testing procedure:

Halogen



--- End of Test-Report ---



January 3, 2023

To: All Ascend Performance Materials Customers

Subject: RoHS and ELV Compliance

This letter is to certify that all Ascend Performance Materials products including Vydyne[®], Ascend[®], Starflam[®], Staramide[®], Star L[®], Star C[®], Starpylen[®], Star X[®], Startone[®], and Starglas[®] brands comply with the relevant requirements of the following legislations:

California: The Electronic Waste Recycling Act (SB 20/50) ("California RoHS")

China: Management Methods for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products ("China RoHS 2") replacing Article 11, Administration on the Control of Pollution Caused by Electronic Information Products ("China RoHS")

European Union:

Directive 2011/65/EU ("RoHS 2 Directive")

Directive 2015/863/EU ("RoHS 3 Directive") that became effective July 22, 2019, restricting the use of four phthalates (DEHP, BBP, DBP and DIBP) in electrical and electronic equipment in addition to the six RoHS 2 substances (Lead, Chromium VI, Mercury, Cadmium, PBB, PBDE)

Directive 2002/96/EC ("WEEE Directive") - including all amendments through 2012/19/EU

Directive 2006/66/EC ("Battery Directive")

Directive 94/62/EC ("Packaging Directive")

Directive 2005/84/EC ("Phthalates Directive") - including all amendments

Directive 2000/53/EC ("ELV Directive") - including all amendments through Commission Delegated Directive (EU) 2020/362 of 17 December 2019

Directive (EU) 2008/98/EC ("Waste Framework Directive") – resins as supplied are not regarded as hazardous waste

UK: The UK's Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 SI 2012/3032 ("UK RoHS Regulations")

UAE: Restriction of Hazardous Substances ("UAE RoHS")

Japan: JIS C 0950, Amendment to the Law for the Promotion of Effective Utilization of Resources ("Japan RoHS")

Korea: Act 6319, Act for Resource Recycling of Electrical and Electronic Equipment and Vehicles ("Korea RoHS")

Norway: Prohibition on Certain Hazardous Substances in Consumer Products ("Norway PoHS"), as amended December 9, 2013

CONEG: (Coalition of Northeastern Governors) Model Toxics in Packaging Legislation

RoHS and ELV regulations limit or require disclosure concerning the use of certain hazardous materials in various types of automotive, electronic, electrical, medical, packaging and consumer products. This declaration confirms 10 restricted materials including mercury, lead, cadmium hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE), Phthalates, Bis 2-ethylhexyl phthalate (DEHP), Benzyl Butyl Phthalate (BBP), Dibutyl phthalates (DBP), and Diisobutyl phthalate (DIBP) are not intentionally added to Ascend nylon products.

This assessment is based on information obtained from raw material suppliers, vendor Safety Data Sheets (SDSs), and our knowledge of Ascend manufacturing processes.

The product information presented above is true, complete, and correct to the best of my knowledge.

Sincerely,

Natasha Dean

Product Stewardship Manager

Notasha Dean

E-Mail: stewardship@ascendmaterials.com





Test Report

號碼(No.): ETR23206227 日期(Date): 02-Mar-2023

頁數(Page): 1 of 10

協祐股份有限公司 (WGJ COMPANY LTD.)

桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as):

送樣廠商(Sample Submitted By) : 協祐股份有限公司 (WGJ COMPANY LTD.)

樣品名稱(Sample Name) : CELANESE ZYTEL

樣品型號(Style/Item No.) : 70G13LNC

收件日(Sample Receiving Date) :

測試期間(Testing Period) : 22-Feb-2023 to 02-Mar-2023

測試需求(Test Requested) : (1) 依據客戶指定,參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測

試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted

sample(s).)

22-Feb-2023

(2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

Troy Chang / Department Malager Signed for and on behalf of Alwah SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: 45A5CCC6



Test Report

號碼(No.): ETR23206227 日期(Date): 02-Mar-2023 頁數(Page): 2 of 10

協祐股份有限公司 (WGJ COMPANY LTD.)

桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

測試部位敘述 (Test Part Description)

No.1 : 白色塑膠粒 (WHITE PLASTIC PELLETS)

測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
鎘 (Cd) (Cadmium (Cd))	參考IEC 62321-5: 2013·以感應耦合電漿發射光	mg/kg	2	n.d.
	譜儀分析。(With reference to IEC 62321-5:			
	2013, analysis was performed by ICP-OES.)			
鉛 (Pb) (Lead (Pb))	參考IEC 62321-5: 2013,以感應耦合電漿發射光	mg/kg	2	n.d.
	譜儀分析。(With reference to IEC 62321-5:			
	2013, analysis was performed by ICP-OES.)			
汞 (Hg) (Mercury (Hg))	參考IEC 62321-4: 2013+ AMD1: 2017,以感應耦	mg/kg	2	n.d.
	合電漿發射光譜儀分析。(With reference to IEC			
	62321-4: 2013+ AMD1: 2017, analysis was			
	performed by ICP-OES.)			
六價鉻 Cr(VI) (Hexavalent Chromium	參考IEC 62321-7-2: 2017 · 以紫外光-可見光分光	mg/kg	8	n.d.
Cr(VI))	光度計分析。(With reference to IEC 62321-7-2:			
	2017, analysis was performed by UV-VIS.)			
一溴聯苯 (Monobromobiphenyl)		mg/kg	5	n.d.
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.
四溴聯苯 (Tetrabromobiphenyl)		mg/kg	5	n.d.
五溴聯苯 (Pentabromobiphenyl)	參考IEC 62321-6: 2015,以氣相層析儀/質譜儀分	mg/kg	5	n.d.
六溴聯苯 (Hexabromobiphenyl)	析。(With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.
七溴聯苯 (Heptabromobiphenyl)	analysis was performed by GC/MS.)	mg/kg	5	n.d.
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.



Test Report

號碼(No.): ETR23206227 日期(Date): 02-Mar-2023

頁數(Page): 3 of 10

協祐股份有限公司 (WGJ COMPANY LTD.)

桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	n.d.
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.
四溴聯苯醚 (Tetrabromodiphenyl ether)		mg/kg	5	n.d.
五溴聯苯醚 (Pentabromodiphenyl ether)	参考IEC 62321-6: 2015 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.
六溴聯苯醚 (Hexabromodiphenyl ether)	析。(With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.
七溴聯苯醚 (Heptabromodiphenyl ether)	analysis was performed by GC/MS.)	mg/kg	5	n.d.
八溴聯苯醚 (Octabromodiphenyl ether)		mg/kg	5	n.d.
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	1	n.d.
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl		mg/kg	50	n.d.
phthalate (BBP))				
鄰苯二甲酸二丁酯 (DBP) (Dibutyl		mg/kg	50	n.d.
phthalate (DBP))				
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-		mg/kg	50	n.d.
(2-ethylhexyl) phthalate (DEHP))				
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl] 参考IEC 62321-8: 2017·以氣相層析儀/質譜儀分	mg/kg	50	n.d.
phthalate (DIBP))	が。(With reference to IEC 62321-8: 2017,			
鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl	analysis was performed by GC/MS.)	mg/kg	50	n.d.
phthalate (DIDP)) (CAS No.: 26761-40-	analysis was performed by GC/Wis.,			
0, 68515-49-1)				
鄰苯二甲酸二異壬酯 (DINP) (Diisononyl		mg/kg	50	n.d.
phthalate (DINP)) (CAS No.: 28553-12-				
0, 68515-48-0)				
鄰苯二甲酸二正辛酯 (DNOP) (Di-n-octyl		mg/kg	50	n.d.
phthalate (DNOP)) (CAS No.: 117-84-0)				



Test Report

號碼(No.): ETR23206227 日期(D

日期(Date): 02-Mar-2023

頁數(Page): 4 of 10

協祐股份有限公司 (WGJ COMPANY LTD.)

桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
六溴環十二烷及所有主要被辨別出的異構物(HBCDD) (α - HBCDD, β - HBCDD, γ - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	參考IEC 62321: 2008 · 以氣相層析儀/質譜儀分析。(With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.
全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜 儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.
全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts)	參考CEN/TS 15968: 2010 · 以液相層析串聯質譜 儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. 全氟辛烷磺酸及其鹽類包含等物質 (PFOS and its salts including): CAS No.: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7, 91036-71-4, 4021-47-0 and others.
- 6. 全氟辛酸及其鹽類包含等物質 (PFOA and its salts including): CAS No.: 335-67-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0, 3825-26-1 and others.



Test Report

號碼(No.): ETR23206227 日期(Date): 02-Mar-2023

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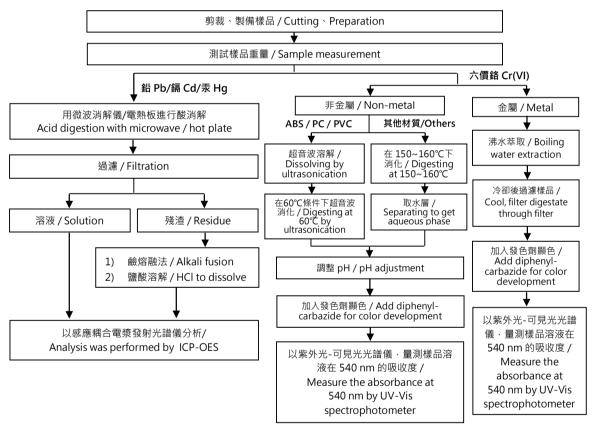
協祐股份有限公司 (WGJ COMPANY LTD.)

桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)





Test Report

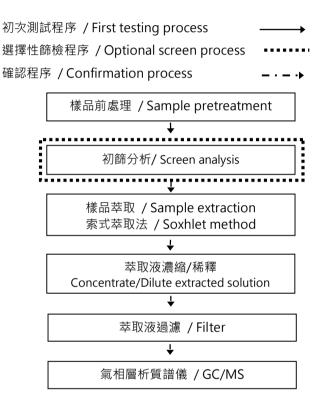
日期(Date): 02-Mar-2023

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協祐股份有限公司 (WGJ COMPANY LTD.)

桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs





Test Report

號碼(No.): ETR23206227 日期(Date): 02-Mar-2023

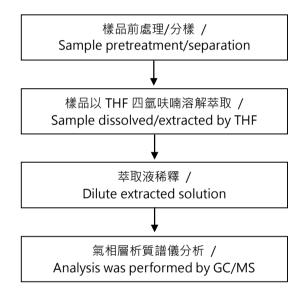
頁數(Page): 7 of 10

協祐股份有限公司 (WGJ COMPANY LTD.)

桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】





Test Report

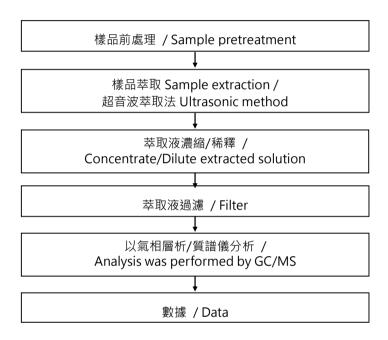
號碼(No.): ETR23206227 日期(Date): 02-Mar-2023

頁數(Page): 8 of 10

協祐股份有限公司 (WGJ COMPANY LTD.)

桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD





Test Report

號碼(No.): ETR23206227 日期

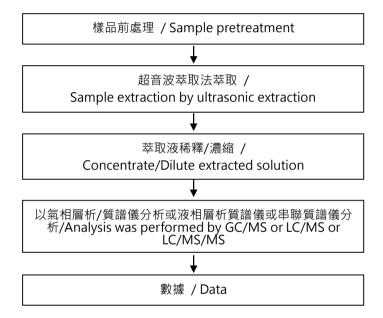
日期(Date): 02-Mar-2023

頁數(Page): 9 of 10

協祐股份有限公司 (WGJ COMPANY LTD.)

桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)





Test Report

號碼(No.): ETR23206227 日期(Date): 02-Mar-2023

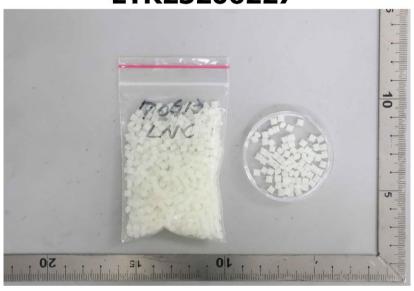
頁數(Page): 10 of 10

協祐股份有限公司 (WGJ COMPANY LTD.)

桃園市龜山區頂湖五街5號 (NO.5, DINGHU 5TH ST., GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R.O.C.))

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR23206227



** 報告結尾 (End of Report) **





Test Report

號碼(No.): ETR23104663 日期(Date): 01-Feb-2023 頁數(Page): 1 of 4

宮前五金股份有限公司 (KUON CHEN HARDWARE CO., LTD.)

桃園市龜山區頂湖一街24號 (NO. 24, DINGHU 1ST ST, GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R. O. C.))

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as):

送樣廠商(Sample Submitted By) : 宮前五金股份有限公司 (KUON CHEN HARDWARE CO., LTD.)

樣品名稱(Sample Name) : FREE CUTTING BRASS BAR

樣品型號(Style/Item No.) : C3604

收件日(Sample Receiving Date) : 17-Jan-2023

測試期間(Testing Period) : 17-Jan-2023 to 01-Feb-2023

測試需求(Test Requested) : 依據客戶指定,參考RoHS指令2011/65/EU Annex II測試鎘、鉛、汞、六價

鉻。 (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI) contents in the

submitted sample(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages.)

Troy Chang / Department Malager Signed for and on behalf of SGS TAIWAN LTD. Chemical Laboratory - Taipei



PIN CODE: 7ABE6F26



Test Report

號碼(No.): ETR23104663 日期(Date): 01-Feb-2023 頁數(Page): 2 of 4

宮前五金股份有限公司 (KUON CHEN HARDWARE CO., LTD.)

桃園市龜山區頂湖一街24號 (NO. 24, DINGHU 1ST ST, GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R. O. C.))

測試部位敘述 (Test Part Description)

No.1 : 黃銅/灰/銅色金屬 (BRASS/GRAY/COPPER COLORED METAL)

測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果
(Test Items)	(Method)	(Unit)		(Result)
				No.1
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-	參考IEC 62321-5: 2013·以感應耦合電漿發	mg/kg	2	65.9
43-9)	射光譜儀分析。(With reference to IEC			
	62321-5: 2013, analysis was performed by			
	ICP-OES.)			
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	參考IEC 62321-5: 2013·以感應耦合電漿發	mg/kg	2	31900
	射光譜儀分析。(With reference to IEC			
	62321-5: 2013, analysis was performed by			
	ICP-OES.)			
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-	參考IEC 62321-4: 2013+ AMD1: 2017·以	mg/kg	2	n.d.
97-6)	感應耦合電漿發射光譜儀分析。(With			
	reference to IEC 62321-4: 2013+ AMD1:			
	2017, analysis was performed by ICP-OES.)			
六價鉻 (Hexavalent Chromium) Cr(VI)	參考IEC 62321-7-1: 2015·以紫外光-可見光	μg/cm²	0.1	n.d.
(CAS No.: 18540-29-9) (#2)	分光光度計分析。(With reference to IEC			
	62321-7-1: 2015, analysis was performed			
	by UV-VIS.)			

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. (#2) =
 - a. 當六價鉻結果大於 $0.13~\mu g/cm^2$ ·表示樣品表層含有六價鉻。(The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13~\mu g/cm^2$. The sample coating is considered to contain Cr(VI).) b. 當六價鉻結果為n.d. (濃度小於 $0.10~\mu g/cm^2$)·表示表層不含六價鉻。(The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-Cr(VI) based coating) c. 當六價鉻結果介於 0.10~ 及 $0.13~\mu g/cm^2~$ 時,無法確定塗層是否含有六價鉻。(The result between $0.10~\mu g/cm^2$ and $0.13~\mu g/cm^2$ is considered to be inconclusive unavoidable coating variations may influence the determination.)

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新北市五股區新北產業園區五權七路 25 號 t+886(02)2299 3939 f+886(02)2299 3237 25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan



Test Report

號碼(No.): ETR23104663 日期(Date): 01-Feb-2023

頁數(Page): 3 of 4

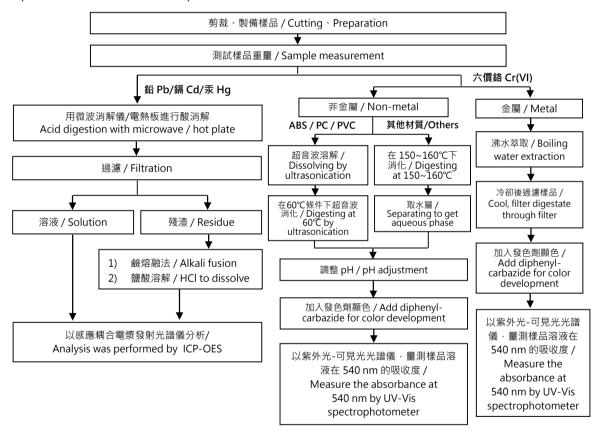
宮前五金股份有限公司 (KUON CHEN HARDWARE CO., LTD.)

桃園市龜山區頂湖一街24號 (NO. 24, DINGHU 1ST ST, GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R. O. C.))

重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)





Test Report

號碼(No.): ETR23104663

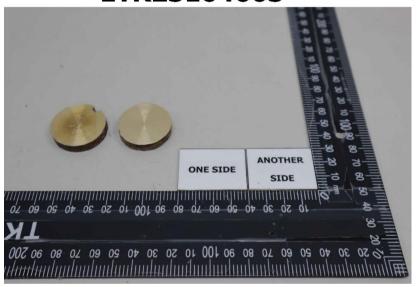
日期(Date): 01-Feb-2023

頁數(Page): 4 of 4

宮前五金股份有限公司 (KUON CHEN HARDWARE CO., LTD.) 桃園市龜山區頂湖一街24號 (NO. 24, DINGHU 1ST ST, GUISHAN DIST., TAOYUAN CITY 33378, TAIWAN (R. O. C.))

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR23104663



** 報告結尾 (End of Report) **





Test Report

號碼(No.): ETR22801913 日期(Date): 17-Aug-2022 頁數(Page): 1 of 9

宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.)

台北市大安區青田街8-1號1樓 (1F., NO. 8-1, CHING TIEN ST., DA-AN DIST., TAIPEI CITY, TAIWAN (R.O.C.))

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as):

送樣廠商(Sample Submitted By)

: 宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.)

樣品名稱(Sample Name)

: PTFE ROD 鐵弗龍棒

收件日(Sample Receiving Date)

: 10-Aug-2022

測試期間(Testing Period)

: 10-Aug-2022 to 17-Aug-2022

測試需求(Test Requested)

(1) 依據客戶指定、參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試 鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

(2) 依據客戶指定‧測試鹵素-氟、氯、溴、碘。 (As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample.)

請參閱下一頁 (Please refer to following pages.)

測試結果(Test Results) 結 論(Conclusion)

(1) 根據客戶所提供的樣品·其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863

amending Annex II to Directive 2011/65/EU.)

Troy Chang / Department Malager
Signed for and on behalf of SGS TAIWAN LTD.
Chemical Laboratory - Taipei



PIN CODE: BE7BB41B



Test Report

號碼(No.): ETR22801913 日期(Date): 17-Aug-2022 頁數(Page): 2 of 9

宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.) 台北市大安區青田街8-1號1樓 (1F., NO. 8-1, CHING TIEN ST., DA-AN DIST., TAIPEI CITY, TAIWAN (R.O.C.))

測試部位敘述 (Test Part Description)

No.1 : 白色棒 (WHITE STICK)

測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-	參考IEC 62321-5: 2013 · 以感應耦合電漿發	mg/kg	2	n.d.	100
43-9)	射光譜儀分析。(With reference to IEC				
	62321-5: 2013, analysis was performed				
	by ICP-OES.)				
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	參考IEC 62321-5: 2013,以感應耦合電漿發	mg/kg	2	n.d.	1000
	射光譜儀分析。(With reference to IEC				
	62321-5: 2013, analysis was performed				
	by ICP-OES.)				
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-	參考IEC 62321-4: 2013+ AMD1: 2017·以	mg/kg	2	n.d.	1000
97-6)	感應耦合電漿發射光譜儀分析。(With				
	reference to IEC 62321-4: 2013+ AMD1:				
	2017, analysis was performed by ICP-				
	OES.)				
六價鉻 Cr(VI) (Hexavalent Chromium	參考IEC 62321-7-2: 2017·以紫外光-可見	mg/kg	8	n.d.	1000
Cr(VI)) (CAS No.: 18540-29-9)	光分光光度計分析。(With reference to IEC				
	62321-7-2: 2017, analysis was performed				
	by UV-VIS.)				
一溴聯苯 (Monobromobiphenyl)		mg/kg	5	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)] 參考IEC 62321-6: 2015,以氣相層析儀/質	mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)	iii 儀分析。(With reference to IEC 62321-	mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)	6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	_
多溴聯苯總和 (Sum of PBBs)		mg/kg	ı	n.d.	1000

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Test Report

號碼(No.): ETR22801913 日期(Date): 17-Aug-2022 頁數(Page): 3 of 9

宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.) 台北市大安區青田街8-1號1樓 (1F., NO. 8-1, CHING TIEN ST., DA-AN DIST., TAIPEI CITY, TAIWAN (R.O.C.))

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
一溴聯苯醚 (Monobromodiphenyl ether)		mg/kg	5	n.d.	-
二溴聯苯醚 (Dibromodiphenyl ether)		mg/kg	5	n.d.	-
三溴聯苯醚 (Tribromodiphenyl ether)		mg/kg	5	n.d.	-
四溴聯苯醚 (Tetrabromodiphenyl ether)	- - 參考IEC 62321-6: 2015·以氣相層析儀/質 - 譜儀分析。(With reference to IEC 62321-	mg/kg	5	n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether)		mg/kg	5	n.d.	-
六溴聯苯醚 (Hexabromodiphenyl ether)	6: 2015, analysis was performed by	mg/kg	5	n.d.	-
七溴聯苯醚 (Heptabromodiphenyl ether)	GC/MS.)	mg/kg	5	n.d.	1
八溴聯苯醚 (Octabromodiphenyl ether)	GC/ 1V13.)	mg/kg	5	n.d.	-
九溴聯苯醚 (Nonabromodiphenyl ether)		mg/kg	5	n.d.	-
十溴聯苯醚 (Decabromodiphenyl ether)		mg/kg	5	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)		mg/kg	1	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl		mg/kg	50	n.d.	1000
phthalate (BBP)) (CAS No.: 85-68-7)					
鄰苯二甲酸二丁酯 (DBP) (Dibutyl] 参考IEC 62321-8: 2017·以氣相層析儀/質	mg/kg	50	n.d.	1000
phthalate (DBP)) (CAS No.: 84-74-2)	参与IEC 02321-0. 2017 · 以無相層和展/員 譜儀分析。(With reference to IEC 62321-				
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-	8: 2017, analysis was performed by	mg/kg	50	n.d.	1000
(2-ethylhexyl) phthalate (DEHP)) (CAS	GC/MS.)				
No.: 117-81-7)	GC/1V13.)				
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl		mg/kg	50	n.d.	1000
phthalate (DIBP)) (CAS No.: 84-69-5)					
氟 (F) (Fluorine (F)) (CAS No.: 14762-94-		mg/kg	50	492000	-
8)					
氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-	參考BS EN 14582: 2016,以離子層析儀分	mg/kg	50	n.d.	-
15-1)	析。(With reference to BS EN 14582:				
溴 (Br) (Bromine (Br)) (CAS No.: 10097-	2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
32-2)					
碘 (I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-



Test Report

號碼(No.): ETR22801913 日期(Date): 17-Aug-2022 頁數(Page): 4 of 9

宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.) 台北市大安區青田街8-1號1樓 (1F., NO. 8-1, CHING TIEN ST., DA-AN DIST., TAIPEI CITY, TAIWAN (R.O.C.))

備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. 除非另有說明·參照ILAC-G8:09/2019·採用簡單二元(w=0)允收規則進行符合性判定;根據此規則·符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)



Test Report

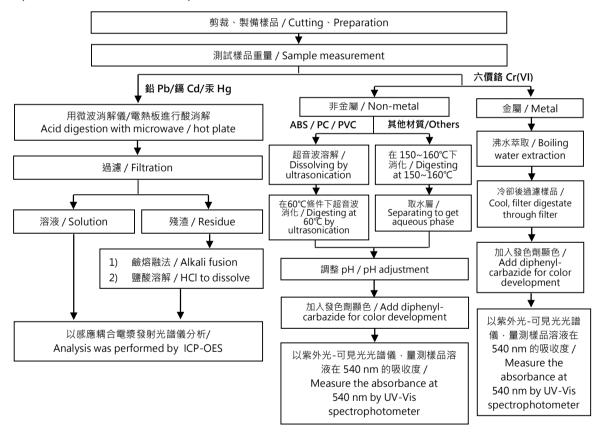
號碼(No.): ETR22801913 日期(Date): 17-Aug-2022 頁數(Page): 5 of 9

宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.) 台北市大安區青田街8-1號1樓 (1F., NO. 8-1, CHING TIEN ST., DA-AN DIST., TAIPEI CITY, TAIWAN (R.O.C.))

重金屬流程圖 / Analytical flow chart of heavy metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)





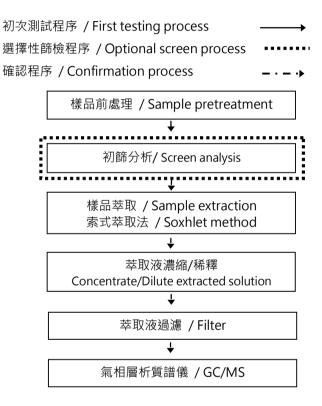
Test Report

號碼(No.): ETR22801913 日期(Date): 17-Aug-2022

頁數(Page): 6 of 9

宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.) 台北市大安區青田街8-1號1樓 (1F., NO. 8-1, CHING TIEN ST., DA-AN DIST., TAIPEI CITY, TAIWAN (R.O.C.))

多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs





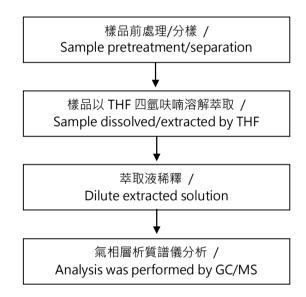
Test Report

號碼(No.): ETR22801913 日期(Date): 17-Aug-2022 頁數(Page): 7 of 9

宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.) 台北市大安區青田街8-1號1樓 (1F., NO. 8-1, CHING TIEN ST., DA-AN DIST., TAIPEI CITY, TAIWAN (R.O.C.))

可塑劑分析流程圖 / Analytical flow chart - Phthalate

【測試方法/Test method: IEC 62321-8】





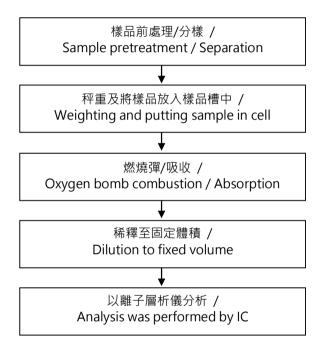
Test Report

號碼(No.): ETR22801913 日期(Date): 17-Aug-2022

頁數(Page): 8 of 9

宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.) 台北市大安區青田街8-1號1樓 (1F., NO. 8-1, CHING TIEN ST., DA-AN DIST., TAIPEI CITY, TAIWAN (R.O.C.))

鹵素分析流程圖 / Analytical flow chart - Halogen





Test Report

號碼(No.): ETR22801913

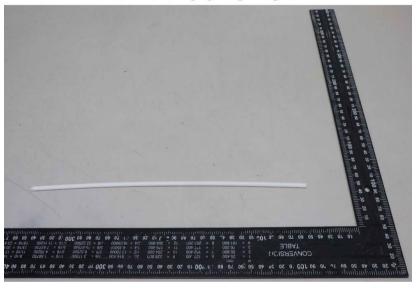
日期(Date): 17-Aug-2022

頁數(Page): 9 of 9

宏庫貿易有限公司 (GRAND WARE TRADING CO., LTD.) 台北市大安區青田街8-1號1樓 (1F., NO. 8-1, CHING TIEN ST., DA-AN DIST., TAIPEI CITY, TAIWAN (R.O.C.))

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR22801913



** 報告結尾 (End of Report) **





Test Report

號碼(No.): EKR23101542 頁數(Page): 1 of 8 日期(Date): 04-Feb-2023

呈鎰金屬工藝有限公司 (CHENGYI METALCRAFT CO., LTD)

台南市永康區洲工街100號 (NO. 100, ZHOUGONG ST., YONGKANG DIST., TAINAN CITY 710, TAIWAN (R.O.C.))

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by the applicant as):

送樣廠商(Sample Submitted By) 呈鎰金屬工藝有限公司 (CHENGYI METALCRAFT CO., LTD)

樣品名稱(Sample Name) 鍍金

收件日(Sample Receiving Date) 30-Jan-2023

測試期間(Testing Period) 30-Jan-2023 to 04-Feb-2023

測試需求(Test Requested) 依據客戶指定,參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測

> 試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP。 (As specified by client, with reference to RoHS 2011/65/EU Annex II and

amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted

sample(s).)

測試結果(Test Results) 請參閱下一頁 (Please refer to following pages.)

論(Conclusion) 根據客戶所提供的樣品,其編、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP,

BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU)

2015/863之限值要求。 (Based on the performed tests on submitted

sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU)

2015/863 amending Annex II to Directive 2011/65/EU.)

Ray Chang, Ph.D./ Department Manage Signed for and on behalf SĞS TAIWAN LTD. 化學實驗室-高雄/Chemical Laboratory-Kaohsiung





Test Report

號碼(No.): EKR23101542 日期(Date): 04-Feb-2023 頁數(Page): 2 of 8

呈鎰金屬工藝有限公司 (CHENGYI METALCRAFT CO., LTD) 台南市永康區洲工街100號 (NO. 100, ZHOUGONG ST., YONGKANG DIST., TAINAN CITY 710, TAIWAN (R.O.C.))

測試部位敘述 (Test Part Description)

No.1 : 金色金屬 (含鍍層) (GOLDEN COLORED METAL (INCLUDING THE PLATING LAYER))

測試結果 (Test Results)

測試項目	測試方法	單位	MDL	結果	限值
(Test Items)	(Method)	(Unit)		(Result)	(Limit)
				No.1	
鎘 (Cd) (Cadmium (Cd)) (CAS No.: 7440-	參考IEC 62321-5: 2013,以感應耦合電漿	mg/kg	2	n.d.	100
43-9)	發射光譜儀分析。(With reference to IEC				
	62321-5: 2013, analysis was performed				
	by ICP-OES.)				
鉛 (Pb) (Lead (Pb)) (CAS No.: 7439-92-1)	參考IEC 62321-5: 2013,以感應耦合電漿	mg/kg	2	10.4	1000
	發射光譜儀分析。(With reference to IEC				
	62321-5: 2013, analysis was performed				
	by ICP-OES.)				
汞 (Hg) (Mercury (Hg)) (CAS No.: 7439-	參考IEC 62321-4: 2013+ AMD1: 2017 ·	mg/kg	2	n.d.	1000
97-6)	以感應耦合電漿發射光譜儀分析。(With				
	reference to IEC 62321-4: 2013+ AMD1:				
	2017, analysis was performed by ICP-				
	OES.)				
六價鉻 (Hexavalent Chromium) Cr(VI)	參考IEC 62321-7-1: 2015 · 以紫外光-可見	μg/cm²	0.1	n.d.	-
(CAS No.: 18540-29-9) (#2)	光分光光度計分析。(With reference to				
	IEC 62321-7-1: 2015, analysis was				
	performed by UV-VIS.)				
一溴聯苯 (Monobromobiphenyl)		mg/kg	5	n.d.	-
二溴聯苯 (Dibromobiphenyl)		mg/kg	5	n.d.	-
三溴聯苯 (Tribromobiphenyl)		mg/kg	5	n.d.	-
四溴聯苯 (Tetrabromobiphenyl)	 参考IEC 62321-6: 2015・以氣相層析儀/質	mg/kg	5	n.d.	-
五溴聯苯 (Pentabromobiphenyl)	iii 儀分析。(With reference to IEC 62321-	mg/kg	5	n.d.	-
六溴聯苯 (Hexabromobiphenyl)	6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	-
七溴聯苯 (Heptabromobiphenyl)		mg/kg	5	n.d.	-
八溴聯苯 (Octabromobiphenyl)		mg/kg	5	n.d.	-
九溴聯苯 (Nonabromobiphenyl)		mg/kg	5	n.d.	-
十溴聯苯 (Decabromobiphenyl)		mg/kg	5	n.d.	-
多溴聯苯總和 (Sum of PBBs)		mg/kg	-	n.d.	1000



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(Method) 一溴聯苯醚 (Monobromodiphenyl ether) 二溴聯苯醚 (Dibromodiphenyl ether) 三溴聯苯醚 (Tribromodiphenyl ether) 五溴聯苯醚 (Pentabromodiphenyl ether) 六溴聯苯醚 (Hexabromodiphenyl ether) 七溴聯苯醚 (Heptabromodiphenyl ether) 九溴聯苯醚 (Octabromodiphenyl ether) 九溴聯苯醚 (Nonabromodiphenyl ether) 十溴聯苯醚 (Decabromodiphenyl ether)	EC 62321- d by mg, mg, mg,	/kg 5	(Result) No.1 n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	(Limit)
□ 決聯苯醚 (Dibromodiphenyl ether) □ 決聯苯醚 (Tetrabromodiphenyl ether) □ 決聯苯醚 (Pentabromodiphenyl ether) □ 大決聯苯醚 (Hexabromodiphenyl ether) □ 大決聯苯醚 (Heptabromodiphenyl ether) □ 大決聯苯醚 (Octabromodiphenyl ether) □ 大決聯苯醚 (Nonabromodiphenyl ether)	mg, mg, mg, mg, mg, d by mg, mg, mg,	/kg 5 /kg 5 /kg 5 /kg 5 /kg 5 /kg 5 /kg 5	n.d. n.d. n.d. n.d. n.d. n.d. n.d.	- - -
□ 決聯苯醚 (Dibromodiphenyl ether) □ 決聯苯醚 (Tetrabromodiphenyl ether) □ 決聯苯醚 (Pentabromodiphenyl ether) □ 大決聯苯醚 (Hexabromodiphenyl ether) □ 大決聯苯醚 (Heptabromodiphenyl ether) □ 大決聯苯醚 (Octabromodiphenyl ether) □ 大決聯苯醚 (Nonabromodiphenyl ether)	mg, mg, mg, mg, mg, d by mg, mg, mg,	/kg 5 /kg 5 /kg 5 /kg 5 /kg 5 /kg 5 /kg 5	n.d. n.d. n.d. n.d. n.d.	- - -
三溴聯苯醚 (Tribromodiphenyl ether) 四溴聯苯醚 (Tetrabromodiphenyl ether) 五溴聯苯醚 (Pentabromodiphenyl ether) 六溴聯苯醚 (Hexabromodiphenyl ether) 七溴聯苯醚 (Heptabromodiphenyl ether) 八溴聯苯醚 (Octabromodiphenyl ether) 九溴聯苯醚 (Nonabromodiphenyl ether)	mg, mg, mg, mg, d by mg, mg, mg,	/kg 5	n.d. n.d. n.d. n.d.	- - -
四溴聯苯醚 (Tetrabromodiphenyl ether) 五溴聯苯醚 (Pentabromodiphenyl ether) 六溴聯苯醚 (Hexabromodiphenyl ether) 七溴聯苯醚 (Heptabromodiphenyl ether) 八溴聯苯醚 (Octabromodiphenyl ether) 九溴聯苯醚 (Nonabromodiphenyl ether)	mg, mg, mg, d by mg, mg, mg,	/kg 5 /kg 5 /kg 5 /kg 5 /kg 5 /kg 5	n.d. n.d. n.d.	-
五溴聯苯醚 (Pentabromodiphenyl ether) 一次溴聯苯醚 (Hexabromodiphenyl ether) 七溴聯苯醚 (Heptabromodiphenyl ether) 八溴聯苯醚 (Octabromodiphenyl ether) 九溴聯苯醚 (Nonabromodiphenyl ether) 九溴聯苯醚 (Nonabromodiphenyl ether) 1.0	相僧析儀/質 EC 62321- d by	/kg 5 /kg 5 /kg 5 /kg 5	n.d. n.d.	-
 二 決聯本醚 (Pentabromodiphenyl ether) 一 決決聯本醚 (Hexabromodiphenyl ether) 一 決決聯本醚 (Octabromodiphenyl ether) 九 決聯本醚 (Nonabromodiphenyl ether) 九 決聯本醚 (Nonabromodiphenyl ether) 	EC 62321- d by mg, mg, mg,	/kg 5 /kg 5 /kg 5	n.d.	-
七溴聯苯醚 (Hexabromodiphenyl ether) 八溴聯苯醚 (Octabromodiphenyl ether) 九溴聯苯醚 (Nonabromodiphenyl ether)	d by mg, mg, mg, mg,	/kg 5 /kg 5		-
一	mg, mg, mg,	/kg 5	n.d.	
九溴聯苯醚 (Nonabromodiphenyl ether)	mg/	3		-
			n.d.	-
十溴聮苯醚 (Decahromodiphenyl ether)		/kg 5	n.d.	-
1 /太祖 / 本版 (Decubiomodipheny ether)	mg/	/kg 5	n.d.	-
多溴聯苯醚總和 (Sum of PBDEs)	mg/	/kg -	n.d.	1000
鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl	層析儀/質 mg/	/kg 50	n.d.	1000
phthalate (BBP)) (CAS No.: 85-68-7) 譜儀分析。(With reference to II	EC 62321-			
8: 2017, analysis was performe	d by			
GC/MS.)				
鄰苯二甲酸二丁酯 (DBP) (Dibutyl	層析儀/質 mg/	/kg 50	n.d.	1000
phthalate (DBP)) (CAS No.: 84-74-2) 譜儀分析。(With reference to II	EC 62321-			
8: 2017, analysis was performe	d by			
GC/MS.)				
鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl 参考IEC 62321-8: 2017 · 以氣相	層析儀/質 mg/	/kg 50	n.d.	1000
phthalate (DIBP)) (CAS No.: 84-69-5) 譜儀分析。(With reference to II	EC 62321-			
8: 2017, analysis was performe	d by			
GC/MS.)				
鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di- 参考IEC 62321-8: 2017 ⋅ 以氣相	層析儀/質 mg/	/kg 50	n.d.	1000
(2-ethylhexyl) phthalate (DEHP)) (CAS iii 6 ii 6 ii 6 ii 6 ii 6 ii 6 ii 6 i	EC 62321-			
No.: 117-81-7) 8: 2017, analysis was performe	d by			
GC/MS.)				



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備註(Note):

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit (方法偵測極限值)
- 3. n.d. = Not Detected (未檢出); 小於MDL / Less than MDL
- 4. "-" = Not Regulated (無規格值)
- 5. (#2) =
 - a. 當六價鉻結果大於 $0.13~\mu g/cm^2$ ·表示樣品表層含有六價鉻。(The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13~\mu g/cm^2$. The sample coating is considered to contain Cr(VI).) b. 當六價鉻結果為n.d. (濃度小於 $0.10~\mu g/cm^2$)·表示表層不含六價鉻。(The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than $0.10~\mu g/cm^2$). The coating is considered a non-Cr(VI) based coating) c. 當六價鉻結果介於 $0.10~\Delta~0.13~\mu g/cm^2$ 時·無法確定塗層是否含有六價鉻。(The result between $0.10~\mu g/cm^2$ and $0.13~\mu g/cm^2$ is considered to be inconclusive unavoidable coating variations may influence the determination.)
- 6. 除非另有說明·參照ILAC-G8:09/2019·採用簡單二元(w=0)允收規則進行符合性判定;根據此規則·符合性結果之判定係以測試結果與限值做比較。(Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)



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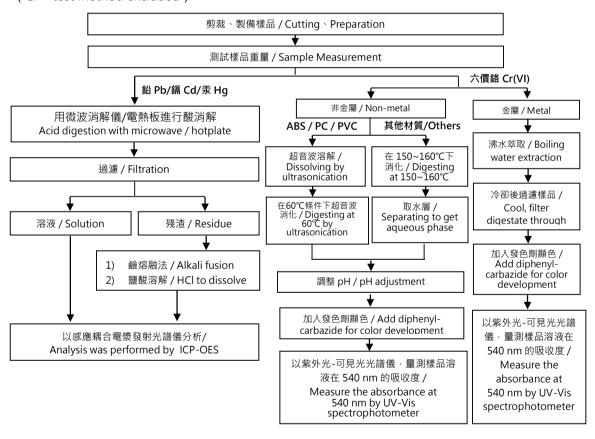
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重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)





Test Report

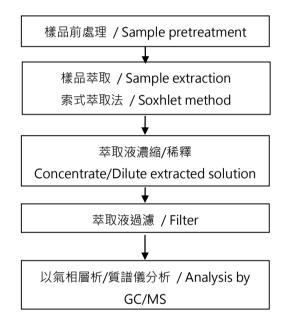
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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART





Test Report

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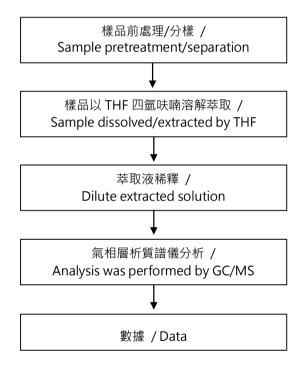
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

【測試方法/Test method: IEC 62321-8】





Test Report

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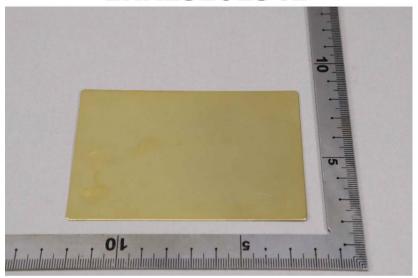
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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

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** 報告結尾 (End of Report) **