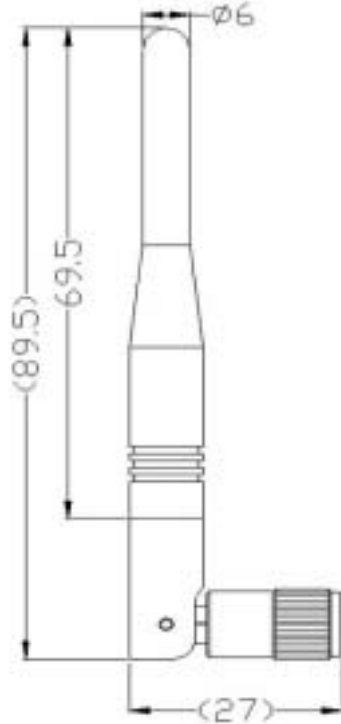


SPECIFICATION

Part Name 2.4GHz Antenna
Part Number DANT-110SP



Electrical Properties

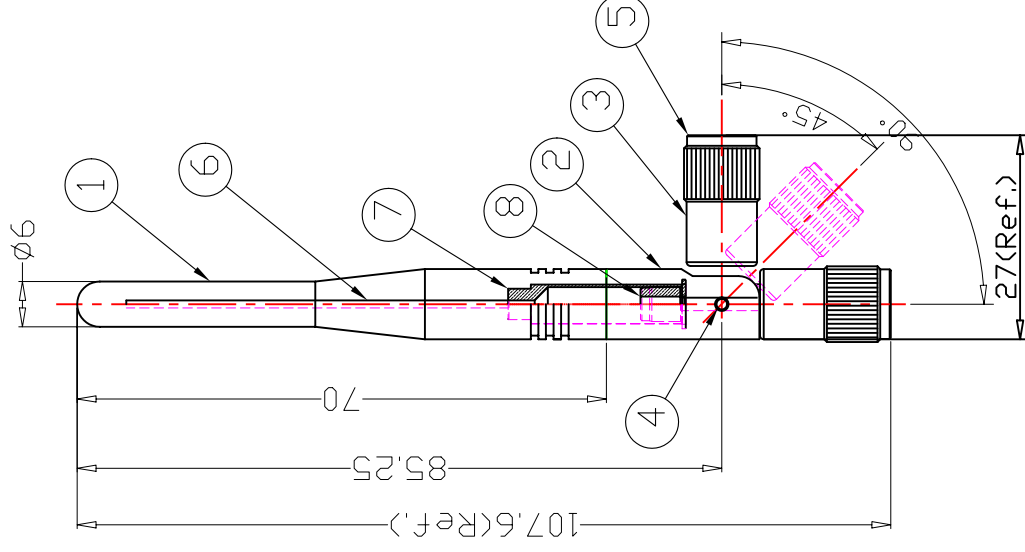
Frequency Range	2.4~2.5GHz
Impedance	50 Ohms nominal
V.S.W.R	2.0 (Max.)
Gain	2.0 dbi
Polarization	Vertical
Radiation	Omni
Electrical Wave	1/4 λ Dipole

Mechanical Properties:

Cable	RG-178
Antenna Cover	Polyurethane (TPE)
Antenna Base	Polyurethane (ABS)
SMA Connector	PLUG
Color	Black
Operation Temperature	-20 ~+65
Storage Tempersture	-30 ~+75

B.O.M

Item	Name	Material.	QTY	Surface	Note.
1	Main Sleeve	TPE	1	Black	
2	Upper Base	ABS	1	Black	
3	Lower Base	ABS	1	Black	
4	Rivet	C3604	2	Zinc Black	
5	SMA Connector	PLUG	1	Zinc Black	
6	Cable	RG-178	1		
7	Cooper Tube	cooper	1	Nickel	
8	Retainer	p.o.m	1		



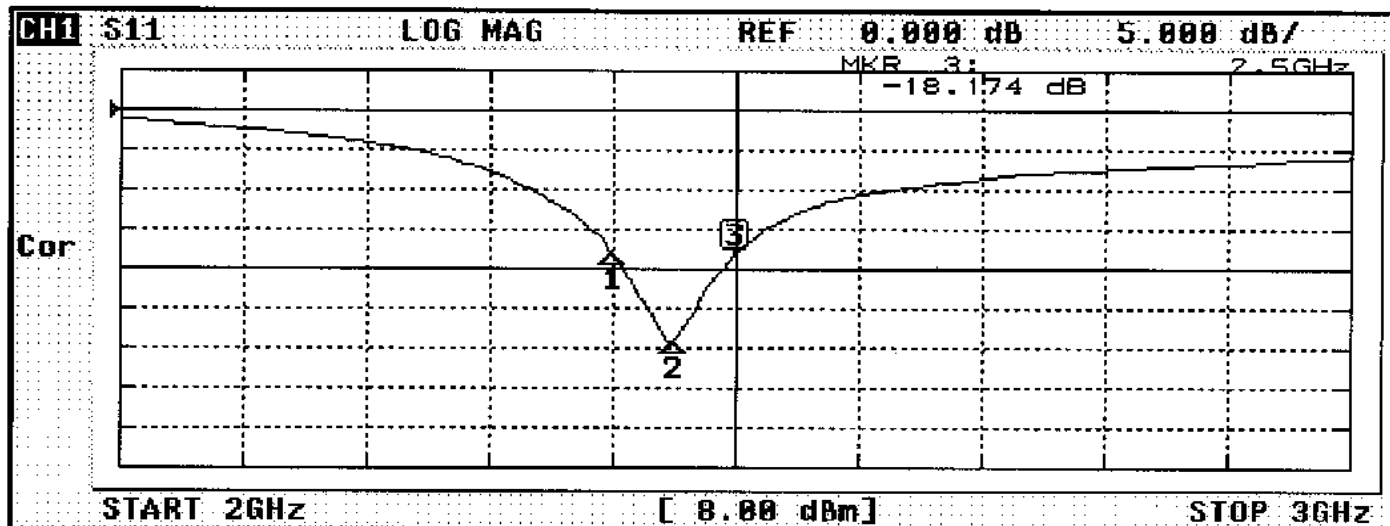
TOLERANCES	
DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED	
.X	± 0.2
.XX	± 0.1
.XXX	± 0.05
ANGULAR,	$\pm 3^\circ$

AUSTONE

[illegible]

RETURN LOSS Test Chart

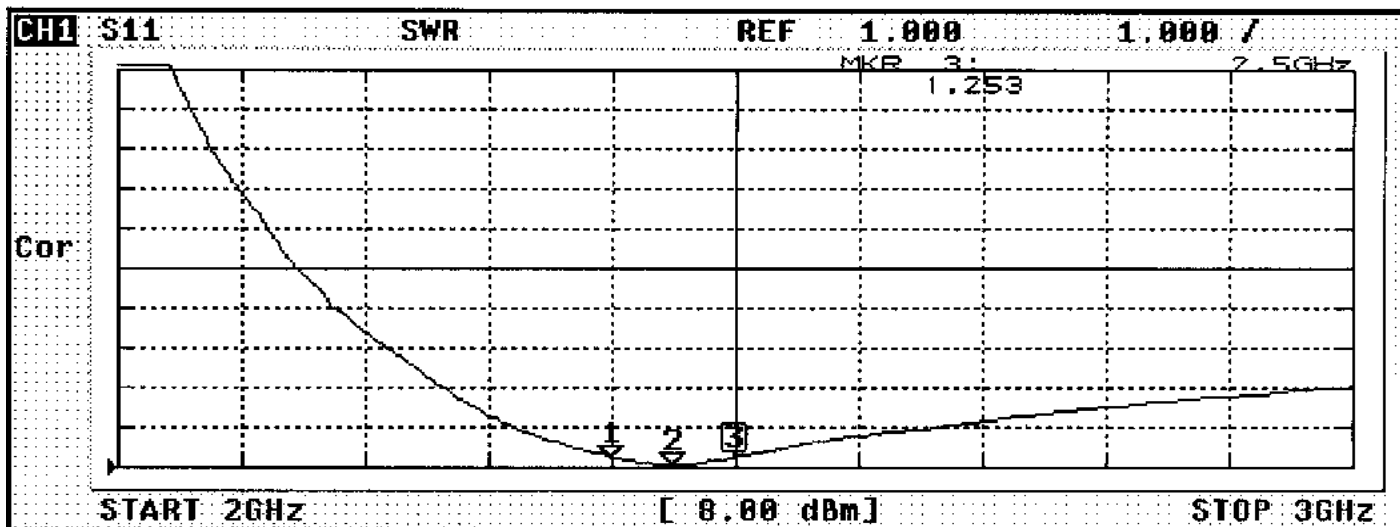
2004/11/30 Tue 16:19:30



CH1 MARKER LIST		
1:	2.400 000GHz	-17.831 dB
2:	2.450 000GHz	-29.021 dB
3:	2.500 000GHz	-18.174 dB
4:		
5:		
6:		
7:		
8:		
9:		
10:		

V.S.W.R Test Results

2004/11/30 Tue 16:20:03



CH1 MARKER LIST

1:	2.400 000GHz	1.264
2:	2.450 000GHz	1.049
3:	2.500 000GHz	1.253
4:		
5:		
6:		
7:		
8:		
9:		
10:		



Advance Data Technology Corporation

誠信科技股份有限公司

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kueishan, Taoyuan, Taiwan, R.O.C.

<http://www.adt.com.tw/> E-mail: service@adt.com.tw

Tayuan Lab : 13-1 Lane 1B, Wen Shan 3rd St., Kueishan, Taoyuan, Taiwan, R.O.C.

Tel (03) 318-3232 Fax (03) 318-5050

Hsinchu Lab: 81-1 Luliakeng, 9th Lin, Wulung Tsuen, Chiunglin, Hsinchu, Taiwan, R.O.C.

Tel (03) 327-0910 Fax (03) 327-0892

Tel (03) 593-5343 Fax (03) 593-5342

Brand / Model : WBC-06BK-C001A

Remark : HOR

Tested by : LAWRENCE

EUT description :

Location: **RF Chamber3**

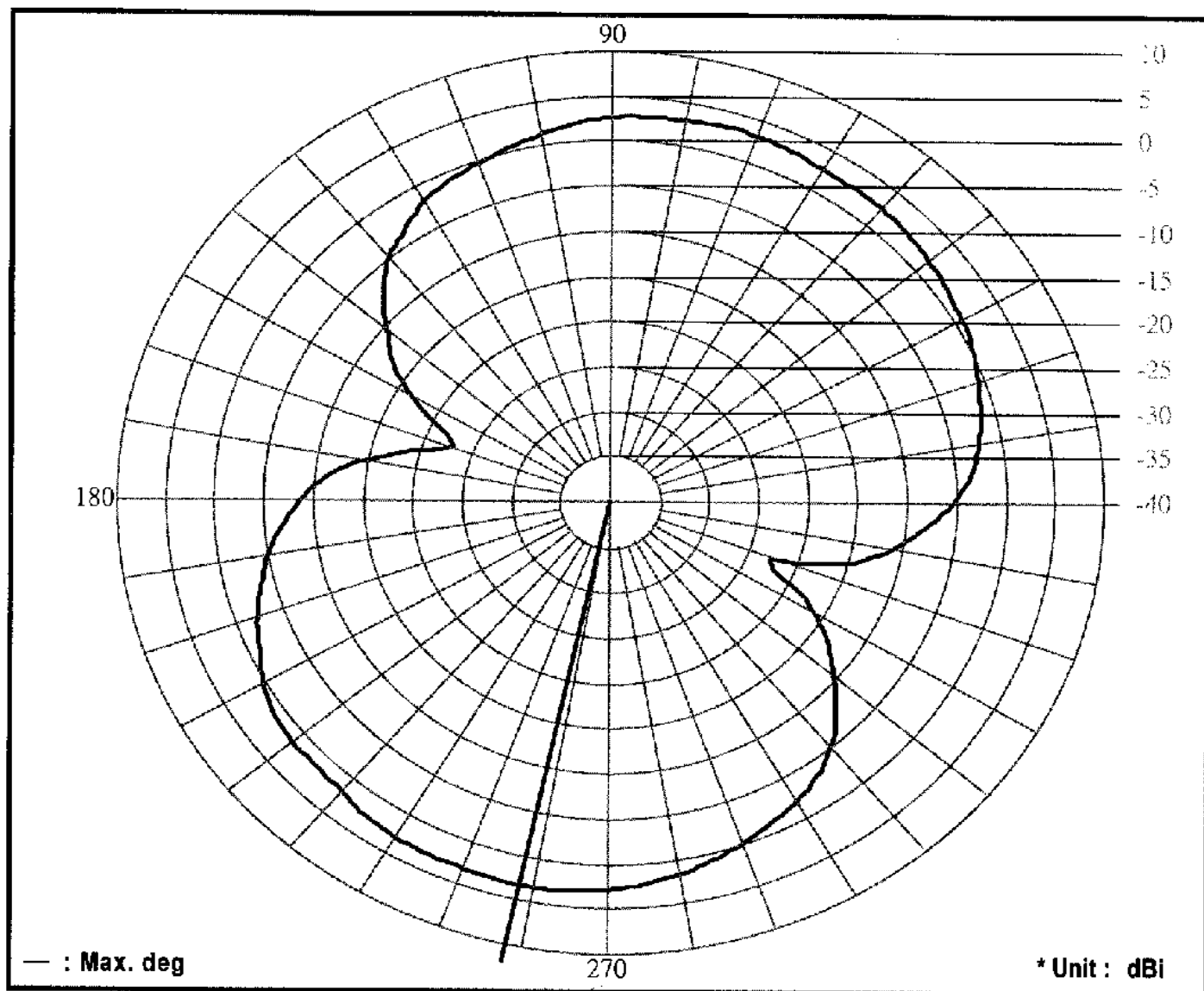
Date: **2004/11/25**

Time: **19:52:30**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2450.00**

Antenna Polarity : **Horizontal**

Average Gain (dB) : **-0.11**

Maximum Gain (dB) : **2.52**

Maximum Gain (degree) : **258**

Minimum Gain (dB) : **-22.97**

Minimum Gain (degree) : **159**



Advance Data Technology Corporation

誠信科技股份有限公司

http://www.adt.com.tw/ E-mail: service@adt.com.tw

Hwa Ya Lab : No.19, Hwa Ya 2nd RD, Kueishan, Taoyuan, Taiwan, R.O.C.

Tel (03) 318-3232 Fax (03) 318-5050

Tayuan Lab : 13-1 Lane 19, Wen Shan 3rd St., Kueishan, Taoyuan, Taiwan, R.O.C.

Tel (03) 327-0910 Fax (03) 327-0892

Hsinchu Lab: 81-1 Luliakeng, 9th Lin, Wulung Tsuen, Chunglin, Hsinchu, Taiwan, R.O.C.

Tel (03) 593-5343 Fax (03) 593-5342

Brand / Model : WBC-06BK-C001A

Remark : VER

Tested by : LAWRENCE

EUT description :

Location: **RF Chamber3**

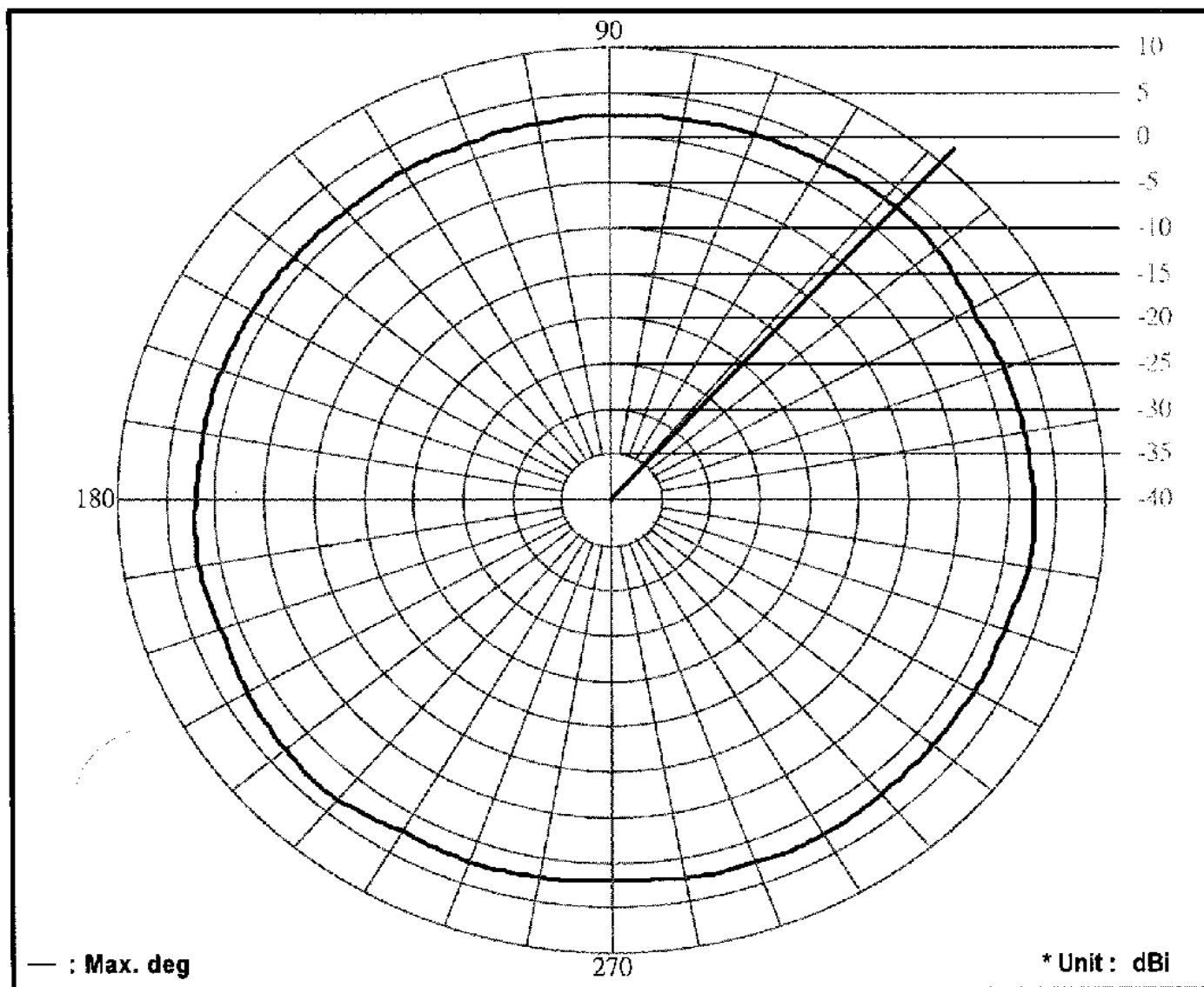
Date: **2004/11/25**

Time: **19:49:36**

Temperatuer (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2450.00**

Antenna Polarity : **Vertical**

Average Gain (dB) : **2.47**

Maximum Gain (dB) : **2.42**

Maximum Gain (degree) : **48**

Minimum Gain (dB) : **1.56**

Minimum Gain (degree) : **129**

Amitel EL630

TPE E

63 Shore D polyether-ester elastomer

<i>properties</i>	<i>Units SI</i>	<i>Typical data Dry</i>	<i>Test methods</i>
Physical properties			
Density	g/cm ³	1,23	ISO 1183
Flammability			ISO 1210/A
burring rate	mm/min	-	
classification	-	FH-1	
Moisture absorption			
at equilibrium in air (23°C/50%RH)	%	0,2	ISO 62
after saturation in water 23°C	%	0,6	
Mechanical properties			
Hardness Shore D	-	63	ISO 868
Tensile modulus (at 1mm/min)	MPa	330	ISO 527-1
Tensile strength (at 50 mm/min)	MPa	30	
Nominal strain at break	%	350	ISO 527-1
Tensile stress at 5% strain	MPa	11,5	ISO 527-1
Tensile stress at 10% strain	MPa	15,9	ISO 527-1
Tensile stress at 50% strain	MPa	17,3	ISO 527-1
Tear strength Graves	kN/m	145	DIN 53515
Izod notched impact strength 23°C	kJ/m ²	NB	ISO 180-1A
Izod notched impact strength -30°C	kJ/m ²	4	ISO 180-1A
Charpy notched impact strength 23°C	kJ/m ²	NB	ISO 179/1eA
Charpy notched impact strength -30°C	kJ/m ²	12	ISO 179/1eA
Tensile impact strength	kJ/m ²	-	ISO 8256
Thermal properties			
Melting temperature	°C	212	ISO 3146
Melt mass-flow rate (240°C/2160g)		-	
Vicat softening temperature - 10 N	°C	200	ISO 306
Vicat softening temperature -50 N	°C	125	ISO 306
Deflection temp. under load - HDT-B	°C	115	ISO 75-2
Coeff. of lin. therm. expansion (parallel)	E-4/K	1,4	DIN 33752
Electrical properties			
Electric strength	kV/mm	22	IEC 60243-1
Relative permittivity at 1kHz	.	4,4	IEC 60250
Loss factor at 1 kHz	E-4	160	IEC 60250
Comparative tracking index	V	600	IEC 60112
Volume resistivity	Ohm.cm	1E+14	IEC 60093
Surface resistivity	Ohm	1E+14	IEC 60093

NB No Break (ductile fracture)

1) Specimen according to ISO 14910 (Campus®).

2) Typical values for nature* coloured materials (unless indicated otherwise).



QMFZ2 Component -Plastics

E47960

DSM ENGINEERING PLASTICS B V
POSTBUS 43 6130 AA SITTARD THE NETHERLANDS

Material Designation: **EL630,EM630**

Product Description: Thermoplastic Elastome'(TPE). Polyester,designated "Amitel" furnished as perlets

Color	Min. Thick (mm)	Flame Class	HWI	NAI	RTI Elec.	RTI IMP	RTI Str	IEC GWIT	IEC GWFI
NC.BK	1.5	HB	-	-	-	-	-	-	-

CTI:-

HVTR:-

D495:-

IEC BP:-

Underwriters Laboratories Inc®

75932:001

UL94 small-scale test data does not pertain to building materials,furnishings and ,elated contents. UL 94 small-scale test data is intended solery for determining the flamm-ability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.



奇美實業股份有限公司

CHI MEI CORPORATION

ORIGINAL

□ Head Office: 59-1, San Chia, Jen Te

TEL: (06)2663000

FAX: (06)2665555-7

Tainan County, Taiwan

□ Taipei Office: 8th Fl., Chi Mei Bldg.,

TEL: (02)23148841

FAX: (02)23618800

No. 9, Ai-Kuo West Road

Taipei, Taiwan.

033271860

4LA05137

物性測定結果
Physical Properties

客戶名稱 : P40538

品 名 LOT NO 項目	Test Method		ASTM	檢 測 值
✓ PA-765A 4Q56J021	Tensile Strength (kg/cm2)	Break	D 638	300.00
引張強度	Tensile Strength (kg/cm2)	Yield	D 638	390.00
引張強度	Tensile Elongation (%)		D 638	36.00
延伸率	Izod Impact Strength (kg.cm/cm)		D 256	16.40
衝擊強度	Melt Index (g/10 min)*		D 1238	5.48
流動係數				





Test Report

WGJ COMPANY LTD.
NO. 5, TING FU 5 TH STREET, KWEI SHAN HSIANG,
TAOYUAN HSIEN, TAIWAN

Report No. : CE/2005/43135
Date : 2005/04/22
Page : 1 of 4

The following merchandise was (were) submitted and identified by the client as :

Type of Product	:	DSM ARNITEL TPEE
Style/Item No	:	EM400, EM460, EL550, EL630, EM740
Sample Received	:	2005/04/15
Testing Date	:	2005/04/15 TO 2005/04/22

=====

<u>Conclusion</u>	:	The test results of Pb, Cd, Hg, Cr+6, PBB and PBDE for the submitted sample which is comply with the requirements of RoHS (2002/95/EC).
-------------------	---	---


Daniel Yen, M.P., Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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Test Report

WGJ COMPANY LTD.
NO. 5, TING FU 5 TH STREET, KWEI SHAN HSIANG,
TAOYUAN HSIEN, TAIWAN

Report No. : CE/2005/43135

Date : 2005/04/22

Page : 2 of 4

Test Result

PART NAME NO.1 : WHITE PLASTIC PELLETS (PLEASE REFER TO THE PHOTO ATTACHED)

PASS

Test Item (s):	Unit	Method	MDL	Result	Limit of ROHS
				No.1	
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	-
Dibromobiphenyl	%		0.0005	N.D.	-
Tribromobiphenyl	%		0.0005	N.D.	-
Tetrabromobiphenyl	%		0.0005	N.D.	-
Pentabromobiphenyl	%		0.0005	N.D.	-
Hexabromobiphenyl	%		0.0005	N.D.	-
Heptabromobiphenyl	%		0.0005	N.D.	-
Octabromobiphenyl	%		0.0005	N.D.	-
Nonabromobiphenyl	%		0.0005	N.D.	-
Decabromobiphenyl	%		0.0005	N.D.	-
Total PBBs(Polybrominated biphenyls)/Sum of above	%		-	N.D.	0.1
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	-
Dibromobiphenyl ether	%		0.0005	N.D.	-
Tribromobiphenyl ether	%		0.0005	N.D.	-
Tetrabromobiphenyl ether	%		0.0005	N.D.	-
Pentabromobiphenyl ether	%		0.0005	N.D.	-
Hexabromobiphenyl ether	%		0.0005	N.D.	-
Heptabromobiphenyl ether	%		0.0005	N.D.	-
Octabromobiphenyl ether	%		0.0005	N.D.	-
Nonabromobiphenyl ether	%		0.0005	N.D.	-
Decabromobiphenyl ether	%		0.0005	N.D.	-
Total PBBEs(PBDEs)(Polybrominated biphenyl ethers)/Sum of above	%		-	N.D.	0.1

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Test Report

WGJ COMPANY LTD.
NO. 5, TING FU 5 TH STREET, KWEI SHAN HSIANG,
TAOYUAN HSIEN, TAIWAN

Report No. : CE/2005/43135
Date : 2005/04/22
Page : 3 of 4

PASS

Test Item (s):	Unit	Method	MDL	Result	Limit of ROHS
				No.1	
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.	1000
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	100
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	1000
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	1000

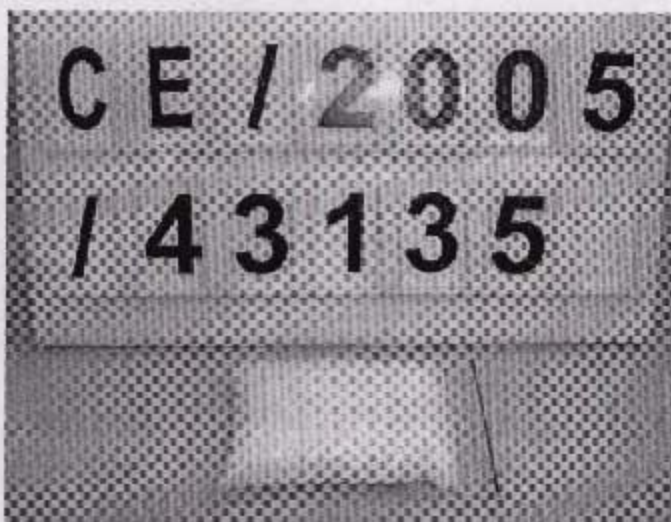
NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit
(4) " --- " = Not Applicable
(5) " - " = No Regulation



Test Report

WGJ COMPANY LTD.
NO. 5, TING FU 5 TH STREET, KWEI SHAN HSIANG,
TAOYUAN HSIEN, TAIWAN

Report No. : CE/2005/43135
Date : 2005/04/22
Page : 4 of 4



TEST REPORT

APPLICANT

CHI MEI CORPORATION
No. 59-1, San Chia, Jen Te Shiang,
Tainan County, Taiwan, R.O.C.

SAMPLE DESCRIPTION

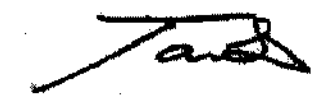
One (1) group of submitted samples said to be :

Product Description : ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER
Style/Item No. : POLYLAC PA-709
Color : NATURAL
Date sample received : Oct. 19, 2004
Date test started : Oct. 21, 2004

TEST CONDUCTED

As requested by the applicant, for details please refer to attached page.

Prepared and checked by :
For Intertek Testing Services
Taiwan Limited



Jacob Lin
General Manager



This report shall not be
reproduced except in full,
without the written approval
of the laboratory.

Intertek Testing Services Taiwan Ltd.
8F., No. 423, Ruiguang Rd., Neihs District, Taipei 114, Taiwan, R.O.C.

全國公證檢驗股份有限公司
114台北市內湖區瑞光路423號8樓

Tel: (+886-2) 8602-2888 · 2797-8885 Fax: (+886-2) 8602-2410

TEST CONDUCTED

(A) Test result summary :

Testing item	Result (ppm)
	Submitted samples
Cadmium (Cd) content	ND
Lead (Pb) content	ND
Mercury (Hg) content	ND
Chromium VI (Cr ⁶⁺) content	ND
PBBs/PBDEs	ND

Remarks : ppm = Parts per million
ND = Not detected

(B) Test method :

Testing item	Testing method	Reporting limit
Cadmium (Cd) content	With reference to EN 1122, by acid digestion and determined by ICP-OES	2 ppm
Lead (Pb) content	With reference to USEPA 3050B, by acid digestion and determined by ICP-OES	2 ppm
Mercury (Hg) content	With reference to USEPA 3052, by microwave digestion and determined by ICP-OES	2 ppm
Chromium VI (Cr ⁶⁺) content	With reference to USEPA 3060A & 7196A, by alkaline digestion and determined by UV-Vis	1 ppm
PBBs/PBDEs	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD	10 ppm

Remark : Reporting limit = Quantitation limit of analyte in sample solution

- END -

Coaxial Cable Data Sheet
RG-178

SPECIFICATION FOR APPROVAL

DOCUMENT: A30178B001

STYLE : 200°C 30V
RG-178B/U

SIZE: 7/0.102 SCCS

RECOGNIZED:

WONDERFUL HI-TECH CO.,LTD

OFFICE : 72WU KONG 6TH ROAD,
WU KU IND. DISTRICT
TAIPEI HSIEN,TAIWAN

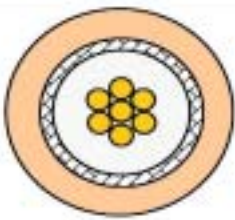
FACTORY : 17 PEI YUAN ROAD,
CHUNG-LI IND. PARK
TAIWAN, R.O.C.

TEL : (02)22988033
FAX : (02)22988031-2

TEL : (03)4527777
FAX : (03)4517214

WONDERFUL HI-TECH CO., LTD

SPECIFICATION

STYLE	200°C 30V COAXIAL	DOCUMENT NO : A30178B001
SIZE	RG-178B/U	ESTABLISHED DATE: 2003/02/13
STANDARD : MIL-C-17		
Conductor	Size	AWG 30
	Material	----- Silver-Coated Copper Clad Steel
	Conductors No.	----- 7
	Conductors Size	mm 0.102
	O.D.	mm 0.30
Insulation	Average Thickness	mm 0.28
	Diameter	mm 0.86
	Material	----- FEP
	Color	----- Clear
Braid	Material	----- Silver-Coated Copper
	Construction	mm 16 / 3 / 0.10
	Coverage	% 95
Jacket	Average Thickness	mm 0.25
	Diameter	mm 1.80 ±0.05
	Material	----- FEP
	Color	----- Brown
Marking		
Drawing		

AK001/210X297/1.0

EDITION : 1.1

MAKER : C.Y.CHEN

CONFIRM : S.N.WONG

PAGE : 1

REVISED DATE :

APPROVAL : W.J.WANG

WONDERFUL HI-TECH CO., LTD

SPECIFICATION

Electrical & Physical Properties							
Item			RG-178B/U				
Rating Temp Voltage			200°C 30V				
Conductor Resistance			838 OHM/KM/20°C MAX.				
Insulation Resistance			3000 MEGA OHM/KM MIN.				
Dielectric Strength			AC 1.0 KV/Minute				
Spark Test			2.0 KV				
Insulation	Unaged	Tensile Strength	2500 PSI MIN.(1.76 Kg / m m ²)				
		Elongation	200% MIN.				
	Aged	Tensile Strength	UNAGED MIN 75%(168HRS×232°C)				
		Elongation	UNAGED MIN 75%(168HRS×232°C)				
Jacket	Unaged	Tensile Strength	2500 PSI MIN.(1.76 Kg / m m ²)				
		Elongation	200% MIN.				
	Aged	Tensile Strength	UNAGED MIN.75%(168HRS×232°C)				
		Elongation	UNAGED MIN.75%(168HRS×232°C)				
Nom. Impedance			50 Ohms				
Nom. Capacitance			95.8 pF/m				
Nom. Vel. of Prop.			69.5%				
VSWR (0 – 6 GHZ)			UNDER 1.3				
Attenuation (dB/100m)	100MHz	1GHz	1.8GHz	2.4GHz	5.2GHz	6GHz	
	46	155	295	340	505	550	

AK001/210X297/1.0

PAGE : 2

EDITION : 1.1

REVISED DATE :

MAKER : C.Y.CHEN

CONFIRM : S.N.WONG

APPROVAL : W.J.WANG



Test Report

WONDERFUL HI-TECH CO., LTD.
NO. 17, PEI-YUAN ROAD., CHUNG-LI IND. PARK,
TAOYUAN TAIWAN, R. O. C.

Report No. : CE/2004/C1640

Date : 2004/12/16

Page : 1 of 3

The following merchandise was (were) submitted and identified by the client as :

Type of Product : RG-178 B/U SERIES
Sample Received : 2004/12/09
Testing Date : 2004/12/09 TO 2004/12/16

Test Result : - Please see the next page -


Daniel Yen, M.P., Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.



Test Report

WONDERFUL HI-TECH CO., LTD.
NO. 17, PEI-YUAN ROAD., CHUNG-LI IND. PARK,
TAOYUAN TAIWAN, R. O. C.

Report No. : CE/2004/C1640

Date : 2004/12/16

Page : 2 of 3

Test Result

PART NAME NO.1 : TRANSPARENT PEP JACKET(PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result			
				No.1			
PBBs(Polybrominated biphenyls)(CAS NO:059536 65-1)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.			
PBBEs(PBDEs)(Polybrominated biphenyl ethers)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.			

Test Item (s):	Unit	Method	MDL	Result			
				No.1			
Chromium VI (Cr-6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.			
Cadmium (Cd)	ppm	ICP-AES after as per FN 1122, method B:2001 or other acid digestion.	2	N.D.			
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.			
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.			

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit

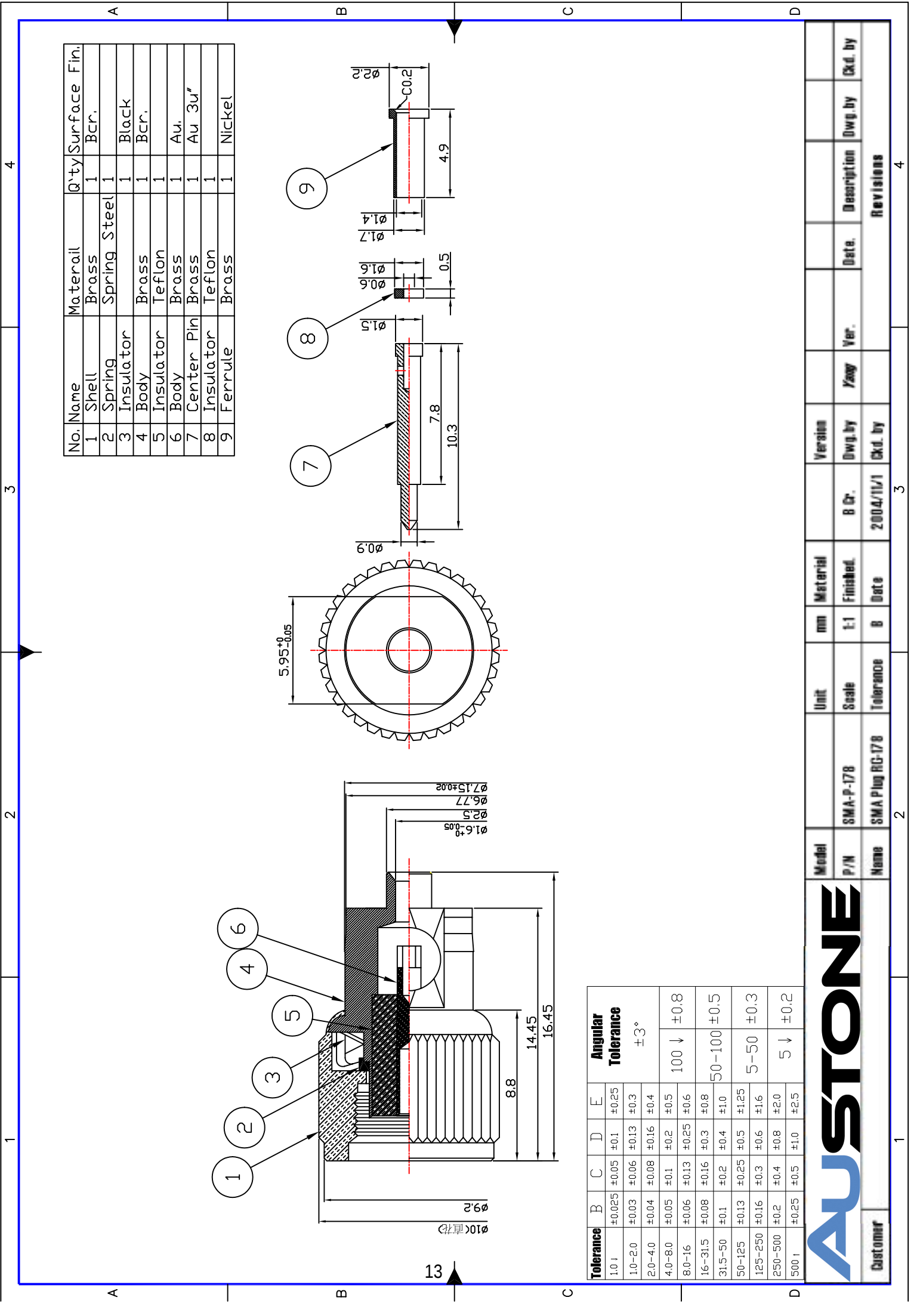


Test Report

WONDERFUL HI-TECH CO., LTD.
NO. 17, PEI-YUAN ROAD., CHUNG-LI IND. PARK,
TAOYUAN TAIWAN, R. O. C.

Report No. : CE/2004/C1640
Date : 2004/12/16
Page : 3 of 3





SMA Series

ELECTRICAL

* Impedance	50 ohm
* Frequency	0-12.4 GHz on Flexible cable. 0-18 GHz on Semi-rigid cable
* Working Voltage	RG-178: 170 VRMS max. at see level RG316, 0.085": 250 VRMS max. at see level RG-142, 0.141": 335 VRMS max. at see level
* Dielectric Withstanding Voltage	RG-178: 500 VRMS min. at see level RG316, 0.085": 750 VRMS min. at see level RG-142, 0.141": 1000 VRMS min. at see level
* VSWR	Straight: 1.3 max. Right Angle: 1.5 max.
* Contact resistance	Center Contact: 6 Milliohms Max. Outer Contact: 2 Milliohms Max.
* Insulator Resistance	5000 megohms min.

MATERIAL

Parts Name	Material	Finish
* Body, metal parts	Brass per QQ-B-626 or Non-magnetic stainless steel per QQ-S-764 # 303	Nickel or BCr. per requirement
* Center Contacts	Male: Brass per QQ-B-626 Female: Phosphor Bronze Bars QQ-C-530	Gold plated Gold plated
* Insulators	PTFE	None
* Gasket	Silicone Rubber	None
* Crimp Ferrules	Annealed copper	Nickel or per requirement

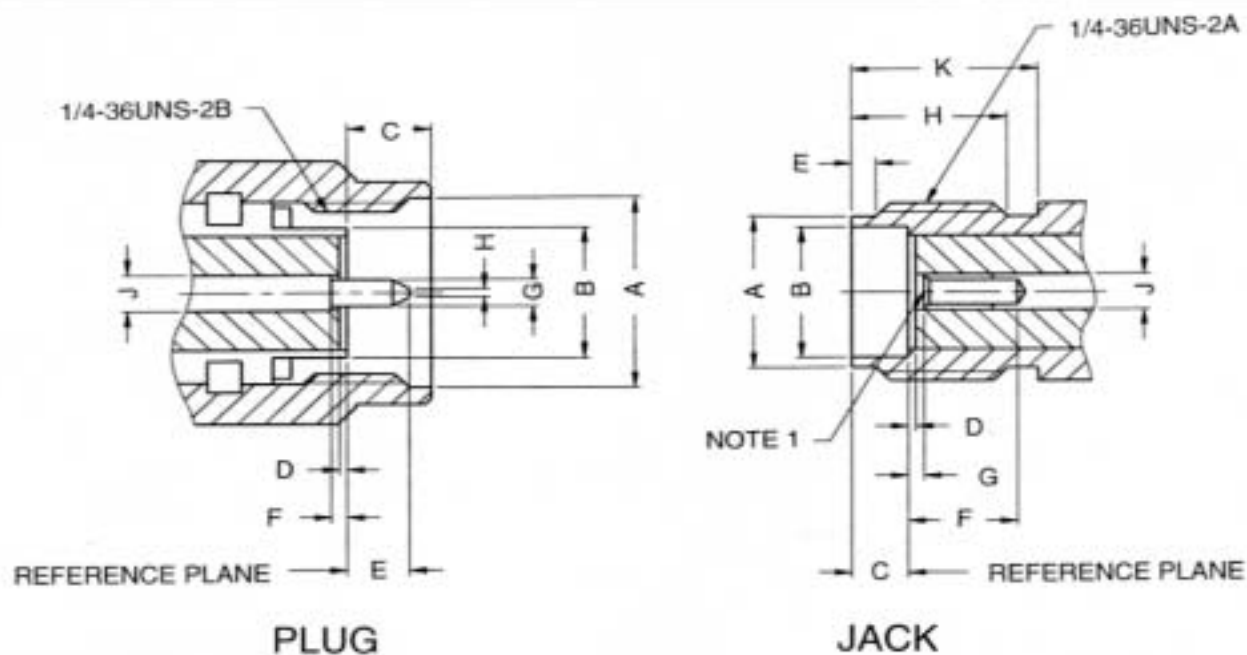
Note: Other Material / Finish is Available on Request.

MECHANICAL

* Engagement Force	2 in- lbs. Max.
* Disengagement Force	2 in- lbs. Max
* Coupling Nut Retention	60 lbs. Min.
* Coupling Proof Torque	15 in-lbs. Min.
* Contact Retention	6 lbs. Min.
* Durability (Mating)	500 cycles min.

SMA COAXIAL CONNECTOR

INTERFACE MATING DIMENSIONS



Letter	Millimeters	
	Minimum	Maximum
A	6.35	6.73
B	4.53	4.59
C	2.54	3.43
D	0.00	0.25
E	1.91	2.54
F	0.00	0.25
G	0.90	0.94
H	0.00	0.38
J	1.24	1.30

Letter	Millimeters	
	Minimum	Maximum
A	5.28	5.49
B	4.60	4.67
C	1.88	1.98
D	0.00	0.25
E	0.38	1.14
F	2.92	-
G	0.00	0.25
H	4.32	-
J	1.24	1.30
K	5.54	-

NOTE: 1. I.D. TO MEET VSWR AND CONTACT RESISTANCE
WHEN MATED WITH .9/.94MM DIA. PIN.

Customer			
Material	Free cutting brass		
Stability-class: JIS H 3250 C3604 BD			
CHEMICAL COMPOSITION %			
Taster	X-RAY ANALYSIS		
Measurement	VACUUM X RAY SPECTROGRAPH		
ELEMENT	STANDARD VALUE	ACTUAL VALUE	REMARK
Cu	57.0-61.0 %	58.43 %	
Pb	1.8-3.7 %	3.36 %	
Fe	< 0.5 %	-----	
Sn+Fe	< 1.2 %	0.71 %	
Zn	REMAINDER	REMAINDER	
Other			
MECHANICAL & PHYSICAL PROPERTIES			
Tensile strength : 360 N/mm ²			
Heated/material Hardness or stability, HB or HV :(90)			
REMARK:			
ASTM Standard: CA 360 Free cutting brass.			

Customer			
Material	Phosphor Bronze Bars		
Stability-class: JIS H 3270 C 5441			
CHEMICAL COMPOSITION %			
Taster	X-RAY ANALYSIS		
Measurement	VACUUM X RAY SPECTROGRAPH		
ELEMENT	STANDARD VALUE	ACTUAL VALUE	REMARK
Cu	Bal-	Bal-	
Sn	3.0 – 4.5 %	4.06 %	
P	0.01 – 0.05 %	0.19 %	
Zn	1.5 – 4.5 %	4.31 %	
Pb	3.5 – 4.5 %	4.01 %	
Cu+Sn+P+Zn +Pb	99.5 Min.	99.99 %	
MECHANICAL & PHYSICAL PROPERTIES			
Tensile strength : 570 min. N/mm ²			
Heated/material Hardness or stability, HB or HV :			
REMARK:			

THE MATERIAL CERTS OF TEFLON

Customer		
Material	TEFLON	
Physical Properties		%
Physical Properties	Density g/cm ³	2.14-2.2
	Water absorption %	>0.01
Mechanical Properties	Tensile strength kg/cm ²	140-350
	Flexural strength kg/cm ²	16.4
	Rockwell hardness	D55
	Izod impact strength kg cm/cm with notch	2.5-2.7
	Taper wears mg/1000 Times	
	Friction coefficients	0.1-0.04
Heat Properties	Coefficient of linear thermal expansion x 10 /°C	7.0-10.0
	Thermal conductivity kcal/m. Hr. °C	6.0
	Heat distortion temperatures °C	
	Heat resistance °C	260-278
Electrical Properties	Dielectric breakdown strengths KV/mm	43-50
	Coefficient of volume resistance Ω-cm	10- ⁹
REMARK:		



品越工業股份有限公司
PREEMINENT INDUSTRIAL CO., LTD.

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CITY, TAIPEI HSIEN, TAIWAN, R. O. C.
TEL: (02) 29924567, 29933767, 29977355
FAX: (02) 29947004

鍍層厚度報告單

FISCHERSCOPE X - R A Y TEST RECORD

品名規格 (SPECIFICATION):

備註 (REMARK):

Au

U* SAMPLE 5 PCS

N =	1	THICKNESS=	3.82	=	130.3
N =	2	THICKNESS=	3.93	=	137.1
N =	3	THICKNESS=	4.23	=	106.2
N =	4	THICKNESS=	4.02	=	113.9
N =	5	THICKNESS=	3.50	=	120.0

檢測結果 (RESULT):

F I N A L R E S U L T

DOUBLE COATING MEASUREMENT

APPLICATION No.

=

5

Au / Ni / Cu

(u*)

Coll.2

TOP COAT.

INT.COAT.

M E A N V A L U E	=	3.902	=	121.52
S T D . D E V I A T I O N	=	0.2713	=	12.389
V m e a s . (%)	=	6.952	=	10.195
L O W E S T R E A D I N G	=	3.500	=	106.23
H I G H E S T R E A D I N G	=	4.234	=	137.10
N o . O F M E A S .	=	5	=	5
M E A S U R I N G T I M E (s)	=		=	30

M E A N T H I C K N E S S

APPLICATION No.

=

1

Au / Ni

(u*) STD.

Coll.2

M E A N T H I C K N E S S	=	1.735
S T D . D E V I A T I O N	=	0.0695
L O W E S T R E A D I N G	=	1.686
H I G H E S T R E A D I N G	=	1.784
N o . O F M E A S .	=	2
M E A S U R I N G T I M E (s)	=	10

	品 管 QC		主 管 MANAGER	 合格 ACCEPT 品質部 出貨品檢	合格章 APPROVE
---	-----------	---	----------------	---	----------------



Test Report

澤雷精密電子有限公司
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30053
日期 : 2004/03/08
頁數 : 1 of 3

以下測試樣品乃供應商所提供及確認：

樣品名稱 : BNC頭(外殼)
收件日期 : 2004/03/01
測試日期 : 2004/03/01 TO 2004/03/08

測試結果 : - 請見下一頁 -


Daniel Yen, M.R., Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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TW 0005303

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主件：含電路

Test Report

澤雷精密電子有限公司
桃園縣龜山鄉頂湖一街24號

報告號碼：CE/2004/30053

日期：2004/03/08

頁數：2 of 3

測試結果

測試部位 NO.1

：銀色金屬

通過

測試項目：	單位	測試方法	偵測極 限值	結果				法規 限值
				NO.1				
歐洲玩具標準EN 71 PART 3:1994(A1:2000)重金屬		依照歐洲玩具標準EN 71 PART 3:1994(A1:2000)						
溶出鉛	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	36.0				90
溶出鎘	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				60
溶出砷	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2.5	< 2.5				25
溶出銅	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	10	< 10.0				1000
溶出鎳	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				75
溶出鉻	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				60
溶出汞	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				60
溶出硒	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				500

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Test Report

澤雷精密電子有限公司
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30053

日期 : 2004/03/08

頁數 : 3 of 3

中心針鋼

測試項目:	單位	測試方法	偵測極 限值	結果				法規 限值
				NO.1				
鎘	ppm	依照 EN1122 方法B:2001或 其他酸消化方法,用感應耦 合電漿原子發射光譜儀 (ICP-AES)做分析	2	25.9				-
鉛	ppm	依照 US EPA 3050B 方法或 其他酸消化方法,用感應耦 合電漿原子發射光譜儀 (ICP-AES)做分析	2	25106.0				-

備註: (1) N.D. = Not detected. (<MDL) / 未檢出(低於偵測極限值)

(2) ppm = mg/kg / 百萬分之一

(3) MDL= Method Detection Limit(偵測極限值)

(4) " --- " = Not Applicable / 未測項目

(5) " - " = Not Regulation / 無規格值

(6) **定性分析(無單位)

(7) Negative / 陰性(未偵測到), Positive / 陽性(已偵測到)

(8) * = 表示依法規規定調整之數據

- END -

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Test Report

澤雷精密電子有限公司
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30054
日期 : 2004/03/08
頁數 : 1 of 3

以下測試樣品乃供應廠商所提供及確認：

TEFLON

樣品名稱 : BNC頭(白色膠芯)
收件日期 : 2004/03/01.
測試日期 : 2004/03/01 TO 2004/03/08

測試結果 : - 請見下一頁 -


Daniel Yen, M.R. - Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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TGFLOW

Test Report

澤雷精密電子有限公司
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30054
日期 : 2004/03/08
頁數 : 2 of 3

測試結果

測試部位 NO.1 : 白色塑膠

通過

測試項目:	單位	測試方法	偵測極限	結果				法規限值
				NO.1				
歐洲玩具標準EN 71 PART 3:1994(A1:2000)重金屬		依照歐洲玩具標準EN 71 PART 3:1994(A1:2000)						
溶出鉛	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				90
溶出銻	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				60
溶出砷	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2.5	< 2.5				25
溶出銅	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	10	< 10.0				1000
溶出鎘	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				75
溶出鉻	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				60
溶出汞	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				60
溶出硒	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0				500

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TW 0005725

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Test Report

澤雷精密電子有限公司
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30054

日期 : 2004/03/08

頁數 : 3 of 3

T27602

測試項目:	單位	測試方法	偵測極限值	結果				法規限值
				NO.1				
錫	ppm	依照 EN1122 方法B:2001或 其他酸消化方法,用感應耦 合電漿原子發射光譜儀 (ICP-AES)做分析	2	N.D.				-
鉛	ppm	依照 US EPA 3050B 方法或 其他酸消化方法,用感應耦 合電漿原子發射光譜儀 (ICP-AES)做分析	2	N.D.				-

備註:(1) N.D. = Not detected.(<MDL) / 未檢出(低於偵測極限值)

(2) ppm = mg/kg / 百萬分之一

(3) MDL= Method Detection Limit(偵測極限值)

(4) " --- " = Not Applicable / 未測項目

(5) " - " = Not Regulation / 無規格值

(6) **定性分析(無單位)

(7) Negative / 陰性(未偵測到), Positive / 陽性(已偵測到)

(8) * = 表示依法規規定調整之數據

- END -



Test Report

澤雷精密電子有限公司
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30055
日期 : 2004/03/08
頁數 : 1 of 3

以下測試樣品乃供應廠商所提供及確認：

樣品名稱 : BNC頭(中心PIN)
收件日期 : 2004/03/01.
測試日期 : 2004/03/01 TO 2004/03/08

測試結果 : - 請見下一頁 -


Daniel Yen, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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TW 0050720

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中一針：金電鍍

Test Report

澤雷精密電子有限公司
桃園縣龜山鄉頂湖一街24號

報告號碼：CE/2004/30055
日期：2004/03/08
頁數：2 of 3

測試結果

測試部位 NO.1：金色金屬

通過

測試項目：	單位	測試方法	偵測極限值	結果					法規限值
				NO.1					
歐洲玩具標準EN 71 PART 3:1994(A1:2000)重金屬		依照歐洲玩具標準EN 71 PART 3:1994(A1:2000)							
溶出鉛	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	16.0					90
溶出鎘	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0					60
溶出砷	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2.5	< 2.5					25
溶出銅	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	10	< 10.0					1000
溶出鎳	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0					75
溶出鉻	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0					60
溶出汞	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0					60
溶出硒	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0					500

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TW 06051103

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Test Report

澤雷精密電子有限公司
桃園縣龜山鄉頂湖一街24號

報告號碼 : CE/2004/30055

日期 : 2004/03/08

頁數 : 3 of 3

主件: 銅

測試項目:	單位	測試方法	偵測極 限值	結果					法 規
				NO.1					
錫	ppm	依照 EN1122 方法B:2001或 其他酸消化方法,用感應藕 合電漿原子發射光譜儀 (ICP-AES)做分析	2	27.0					-
鉛	ppm	依照 US EPA 3050B 方法或 其他酸消化方法,用感應藕 合電漿原子發射光譜儀 (ICP-AES)做分析	2	28466.0					-

備註: (1) N.D. = Not detected. (<MDL) / 未檢出(低於偵測極限值)

(2) ppm = mg/kg / 百萬分之一

(3) MDL= Method Detection Limit(偵測極限值)

(4) " --- " = Not Applicable / 未測項目

(5) " - " = Not Regulation / 無規格值

(6) **定性分析(無單位)

(7) Negative / 陰性(未偵測到), Positive / 陽性(已偵測到)

(8) * = 表示依法規規定調整之數據

- END -

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TW 0050710



Test Report

奕星企業社

330桃園市汴洲里健行路124號

報告號碼 : CE/2003/B1755

日期 : 2003/12/02

頁數 : 1 of 2

以下測試樣品乃供應廠商所提供及確認：

樣品名稱 : 固定鉚釘(黑鋅,小)
收件日期 : 2003/11/26.
測試日期 : 2003/11/26 TO 2003/12/02

測試結果

: - 請見下一頁 -

Stefan Hsu.
Stefan Hsu, M.R./Asst. Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.

★Sample to be returned as requested★

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Test Report

奕星企業社

3309桃園市汴洲里健行路124號

報告號碼 : CE/2003/B1755

日期 : 2003/12/02

頁數 : 2 of 2

測試結果

測試部位 NO.1

測試樣品請看樣品卡

測試項目:	單位	測試方法	偵測極限值	結果				
				NO.1				
六價鉻	ppm	依照US EPA 7196A及3060A方法	2	N.D.				
錳	ppm	依照 EN1122 方法B:2001或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	33.9				
汞	ppm	依照 US EPA 3052 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.				
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	30331.0				

備註: (1) N.D. = Not detected. (<MDL) / 未檢出(低於偵測極限值)

(2) ppm = mg/kg / 百萬分之一

(3) MDL = Method Detection Limit(偵測極限值)

(4) " --- " = Not Applicable / 未測項目

(5) " - " = Not Regulation / 無規格值

(6) **定性分析(無單位)

(7) Negative / 陰性(未偵測到), Positive / 陽性(已偵測到)

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W: 0362602

SGS Taiwan Ltd. / No. 36-1 Wu Kung Road, Wuku Industrial Zone, Taichung City, Taiwan. / 台北縣五股工業區五二路136-1號
 台灣檢驗科技股份有限公司 / 電話: (886-2) 2299-3939 / 傳真: (886-2) 2299-3237 / 網址: www.sgs.com.tw
 Member of SGS Group (Société Générale de Surveillance)

POWER 3460

Cyanoacrylate Adhesive

POWER 3460 is a fast setting, medium viscosity general purpose adhesive. **POWER 3460** is a user friendly, cosmetically pleasing formulation that incorporates no-odor, non-blooming characteristics while maintaining excellent bond strengths. **POWER 3460** may eliminate the need for special ventilation.

PHYSICAL PROPERTIES

MONOMER (Liquid)

Base Compound	Ethoxyethyl
Appearance	Colorless Liquid
Viscosity (cps @ 68F)	80 cPs
Specific Gravity (g/cc)	1.06
Flash Point (TCC)	176F
Shelf Life @ 40F	One year in unopened containers
Setting Time:(68F, 65%R.H.)	
Metal/Metal	40 Seconds
Plastic/Plastic	15 Seconds
Rubber/Rubber	10 Seconds

POLYMER (Cured)

Appearance	Colorless Solid
Service Temperature Range	-65F to 200F
Softening Point	293F
Refractive Index (ND 20)	1.49
Full Cure Time	24 Hours
Dielectric Strength KV/mm	12.6
Dielectric Constant @ 1Kc	5.4
Coefficient of Thermal Expansion (in./in./F)	.000126
Tensile Strength:	
Steel / Steel	2600 psi
Solubility	Nitromethane, Acetone, Dimethylformamide

A. NEW CYANOACRYLATE ADHESIVE *POWER 3460*

1. *POWER 3460* is a NON - BLOOMING and NO - ODOR cyanoacrylate adhesive.
2. *POWER 3460* can be used for bonding a variety of metals, plastics, rubber, etc.

(Setting Time and Strength)		
Substrate	Setting time (sec.)	Tensile Shear Strength (N/mm ²)
Steel/Steel	20	19.6
Aluminum/Aluminum	20	11.8
Stainless Steel/Stainless Steel	20	19.6
Copper/Copper	20	11.8
ABS/ABS	30	*5.9
Acrylic/Acrylic	100	*3.9
Rigid PVC/Rigid PVC	40	2.9
Phenol/Phenol	40	*6.9
Polycarbonate/Polycarbonate	60	*8.8
CR/CR	5	*0.5
NBR/NBR	5	*0.5
Steel/Rigid PVC	40	2.9
Steel/CR	10	*0.5

* Substrate Failure

Test conditions : 23°C, 60% RH

Setting time, tensile shear strength apply correspondingly
to JIS K 6861

B. DIRECTIONS FOR USE *POWER 3460*

1. Make sure the surfaces to be bonded are clean and dry.
2. Dispense a drop or drops to one surface only. Apply only enough to leave a thin film after compression.
3. Press parts together and hold firmly for a few seconds. Good contact is essential. An adequate bond develops in less than one minute.(Maximum strength is achieved in 24 to 48 hours.)
4. Wipe off excess adhesive from the top of the container and recap. *POWER 3460*, if left uncapped, may deteriorate by contamination from moisture in the air.
5. Because *POWER 3460* condenses by polymerization, sometimes a whitening will occur on the surface of the container or the bonded materials. Should this happen, wipe surfaces well with acetone.



Test Report

尚頁科技股份有限公司
334桃園縣八德市大明街56號

報告號碼 : CE/2004/A2950
日期 : 2004/10/29
頁數 : 1 of 2

以下測試樣品乃供應廠商所提供及確認：

樣品名稱 : POWER 瞬間膠
產品型號 : POWER 3460
收件日期 : 2004/10/21
測試日期 : 2004/10/21 TO 2004/10/29

測試結果 : - 請見下一頁 -


Daniel Yen, M.R., Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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Test Report

尚貢科技股份有限公司
334桃園縣八德市大明街56號

報告號碼 : CE/2004/A2950
日期 : 2004/10/29
頁數 : 2 of 2

測試結果

測試部位 NO.1 : 半透明殼體

通過

測試項目:	單位	測試方法	偵測極限	結果					法規 限值
				NO.1					
歐洲玩具標準EN 71 PART 3:1994(A1:2000)重金屬		依照歐洲玩具標準EN 71 PART 3:1994(A1:2000)							
溶出鉛	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0					90
溶出鎘	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0					60
溶出鉍	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2.5	< 2.5					25
溶出銅	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	10	< 10.0					1000
溶出鎳	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0					75
溶出鉻	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0					60
溶出汞	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0					60
溶出鎘	ppm	用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	5	< 5.0					500

備註: (1) N.D. = Not detected, (<MDL) / 未檢出(低於偵測極限值)

(2) ppm = mg/kg / 百萬分之一

(3) MDL= Method Detection Limit (偵測極限值)

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