

## DURABLE PORTFOLIO



## Product Data Sheet

2M WH PET TC/S8001/50#SCK

Spec#: 78385

Facestock		Facestock physical properties				
2 Mil White Polyester TC is a homogeneously pigmented white facestock featuring excellent tear strength, heat resistance, dimensional stability, opacity, and chemical resistance.			Imperial Value	Units	Metric Value	Units
	Caliper:		0.0020	inches	50.80	micron
	Tensile:	MD	21,300	PSI	1,497	kg/cm2
		CD	28,400	PSI	1,997	kg/cm2

Adhesive		Adhesive physical properties				
S8001 is a high performance, clear permanent emulsion acrylic pressure sensitive adhesive with balanced adhesion to a wide variety of substrates, including low surface energy plastics, engineering grade plastics, bare, coated, or painted metals, including powder coat and enamel paints. It features medium tack and excellent chemical and UV resistance for outdoor industrial applications.			Imperial Value	Units	Metric Value	Units
	Type:		Emulsion Acrylic			
	Caliper:		0.0010	inches	25.40	microns
	Standard Coat Wt:				27	g/sq m
	Minimum Appl Temp:		50	F	10	C
	Service Temp Range:	Min	-40	F	-40	C
		Max	302	F	150	C
	Loop Tack Stainless Steel: PSTC11		32.0	oz/inch	35.2	N/100 mm

Liner		Liner physical properties				
50# SCK is a bleached, super calendered paper stock with very good die-cutting and matrix stripping properties. Used for standard roll-to-roll applications. Not recommended for sheeting.			Imperial Value	Units	Metric Value	Units
	Caliper:		0.0032	inches	81.2800	micron
	Basis Wt: TAPPI T410		54.5	lbs/ream	87.2	g/sq m
			* (24" x 36" 500 sheets)			
	Tensile:	MD	48.0	lbs/inch	211.2	N/25 mm
		CD	26.0	lbs/inch	114.4	N/25 mm
	Tear:	MD	1.8	ounces	51.1	grams
		CD	2.1	ounces	59.6	grams

Liner Release:		Total Construction Caliper (approximate):	
TMLI 90° removal of Liner from Facestock.			
Rate of Removal	Grams/2" Width		
400 inches/min.	30	0.006 inches (6 mils; 152 microns)	

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**Product Data Sheet****Features and Benefits**

- Opaque white facestock with very good hiding power and physical strength
- Glossy clear top coat that accepts most flexographic, letterpress, and rotary screen inks.
- Excellent thermal transfer printability with some resin enhanced wax, and most resin based ribbons.
- Excellent chemical resistance and good outdoor durability
- UL and c-UL Recognized. See files MH8212 and MH17205 for specific details on recognized conditions

**Applications and Uses**

Suitable for a variety of durable labeling applications such as:

- Product identification
- Barcodes
- WIP (Work-in-process) tracking labels
- Asset tags

**Printing and Converting**

The top coat is designed for printing by most solvent, UV cured, and water-based flexographic inks, UV cured letterpress and rotary screen inks. Specially formulated inks are not normally necessary, however, testing is recommended prior to final ink system selections. The following press inks have shown excellent results. Water-based flexographic inks: Environmental Inks & Coatings' "DR III FR"; Flint Ink's "HydroFilm ACRE"; and Water Ink Technologies' "Versifilm Plus ULF". UV Flexographic inks: Environmental Inks & Coatings' "UltraFlex III SFR"; Flint Ink's "Flexocure Sigma"; and Water Ink Technologies' "PharmaFlex UV". UL recognized with Environmental Inks and Coatings' "Aqua Plus" and "Aqua Film III" in blue and black colors, and Water Ink Technologies' "Water Gloss" ink in all colors. Also suitable for thermal transfer printing with select ribbons and printers. Consult product recognition files or the Fasson Thermal Transfer Ribbon Guide for specific recommendations. This product can be die cut and stripped at high speeds on most web-fed presses. Sample labels in a variety of shapes have been successfully dispensed and applied with standard labeling systems.

**RoHS/Regulation 2002/95/EU**

The substances listed in article 4 lid 1 of 2002/95/EU (RoHS) are not intentionally used in this product. The concentration limits of these substances will not exceed the set maximum concentration limits as provided in the proposed amendment for 2002/95/EU.

**Shelf Life**

Unless specified otherwise in this document, one year when stored at 72°F at 50% RH

**Note:**

The technical data presented is from tests we believe to be reliable but should be considered representative or typical only and should not be used for specifications purposes. This product should be tested thoroughly under end-use conditions to ensure it meets the requirements of the specific application.

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## Product Data Sheet

## Appendix

## Performance Data:

The following technical data should be considered representative or typical only and should not be used for specification purposes. Data was generated from samples with 2 mil polyester facestocks, applied to clean laboratory panels. See Tech Bulletin "Achieving Maximum Adhesion" for specifics.

	Initial (15 minute dwell)		72 Hours at Room Temperature		72 Hours at 120°F		96 Hours at 150°F (65°C) & 80% Relative Humidity	
Surface	oz/in	N/100mm	oz/in	N/100mm	oz/in	N/100mm	oz/in	N/100mm
1. Aluminum	33.8	37.2	58	63.9	66.9	73.6	98.4	108.3
2. ABS Plastic	42.3	46.5	68.9	75.8	54.7	60.1	71.8	79.0
3. Polypropylene	11.0	12.1	38.4	42.1	33.9	37.3	27.7	30.5
4. HDPE	25.5	28.1	32	35.2	31.1	34.2	36.2	39.8
5. LDPE	8	8.8	56	61.6	6.8	7.5	16.5	18.2
6. Stainless Steel	35.2	38.7	60.4	66.5	42.9	47.2	50.6	55.7

## Environmental Performance: Chemical Resistance test results

The performance results are based on 4 hour immersions at room temperature unless otherwise noted (gasoline is 1 hour). Samples were applied to stainless steel panels and conditioned for 24 hours before immersion and evaluated immediately upon removal. Adhesion measured at 180° peel.

	Adhesion to Stainless Steel		Visual	Edge
Chemical	oz/in	N/100mm	Appearance	Penetration mm
1. 70% IPA	46.2	50.8	No change	0
2. Tide® Detergent	40.1	44.1	No change	0
3. Engine Oil (10W30)	51.2	56.4	No change	0
4. Water	19	20.9	No change	0
5. Ammonia - pH 11	44.8	49.3	No change	0
6. 409® Cleaner	49.2	54.1	No change	0
7. Toluene	21.7	23.9	No change	0
8. Brake Fluid	46.4	51	No change	0
9. Reference Fuel C	39.4	43.3	No change	0
10. K1 Kerosene	45.7	50.2	No change	0

11. Heptane	39.6	43.5	No change	0
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### Compliance Recognition: UL, C-U



**Underwriters Laboratories, Inc.**

Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor Only I/O=Indoor & Outdoor)
	°F	°C	°F	°C	
1. Acrylic Paint	-40	-40	302	150	I/O
2. Acrylic PCP*	-40	-40	302	150	I/O
3. Alkyd Enamel	-40	-40	302	150	I/O
4. Aluminum	-40	-40	302	150	I/O
5. Anodized Aluminum	-40	-40	302	150	I/O
6. Epoxy Paint	-40	-40	302	150	I/O
7. Epoxy PCP*	-40	-40	302	150	I/O
8. Galvanized Steel	-40	-40	302	150	I/O
9. Polyester Paint	-40	-40	302	150	I/O
10. Polyester PCP*	-40	-40	302	150	I/O
11. Polyurethane PCP*	-40	-40	302	150	I/O
12. Blended PCP*	-40	-40	302	150	I/O
13. Porcelain	-40	-40	302	150	I/O
14. Stainless Steel	-40	-40	302	150	I/O
15. Melamine	-40	-40	212	100	I/O
16. Phenolic	-40	-40	212	100	I/O
17. Polycarbonate	-40	-40	212	100	I/O
18. Thermoset Polyester	-40	-40	212	100	I/O
19. ABS Plastic	-40	-40	176	80	I/O
20. PBT Plastic	-40	-40	176	80	I/O
21. Polypropylene	-40	-40	176	80	I/O
22. Polyethylene			176	80	I
23. Polyphenylene Oxide	-40	-40	176	80	I/O
24. Polystyrene	-40	-40	176	80	I/O
25. and others					

26. *PCP=Powder Coat Paint					
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**Recognized Ribbons:** Armor "AXR7+", Armor "AXR8", Armor "AXR600", Astro Med Inc "R-5", Astro Med "RF", Astro Med "RY", Coding Prds "5940", DNP "R-300", DNP "R-510", DNP "TR4070", DNP "Signature Series Resin", Iimac "SP-410", Iimac "SP-330", Iimac "Primemark", Intermec "TMX 1500", Intermec "TMX 3200", ITW "B324", Kurz "K300", Kurz "K500", Kurz "K501", NCR "Promark 3", NCR "Pacesetter", NCR "Ultra V", NCR "Perma Max", NCR "K3", Ricoh "B110C", Ricoh "B110CX", Ricoh "B110CR", Ricoh "120EC", Sato Corp. "Premier 1", UCA "US300", Zebra "5095", Zebra "5100", Zebra "5175", Zebra "5463", Zebra "Z-4100", and others.



**Tested by Underwriters Laboratories, Inc.**  
to meet the requirements of the Canadian Standards Association for  
labeling materials

Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor Only I/O=Indoor & Outdoor)
	°F	°C	°F	°C	
1. Electrostatic Paints	-40	-40	302	150	I/O
2. Metals	-40	-40	302	150	I/O
3. Plastics Group I	-40	-40	212	100	I/O
4. Plastics Group II	-40	-40	176	80	I/O
5. Plastics Group III	-40	-40	176	80	I/O
6. Plastics Group IV	-40	-40	176	80	I/O
7. Plastics Group V	-40	-40	176	80	I/O
8. Plastics Group VI	-40	-40	176	80	I/O
9. Plastics Group VII	-40	-40	176	80	I/O
10. Plastics Group VIII	-40	-40	176	80	I/O

**Recognized Ribbons:** Armor "AXR7+", Armor "AXR8", Armor "AXR600", DNP "R-300", DNP "R-510", DNP "TR4070", DNP "Signature Series Resin", Kurz "K500", NCR "Promark 3", Ricoh "B110C", Ricoh "B110CR", Sato Corp. "Premier 1", UCA "US300", Zebra "5100", and others.

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The information on compliance conditions, substrates, and printing products contained in the tables above represent a summary of recognized or acceptable conditions and printing products. Other conditions, substrates, and printing products may be recognized with this material. Please consult the specific compliance organization records or specific files for a complete listing.

**Warranty**

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WHITE  
MATERIAL

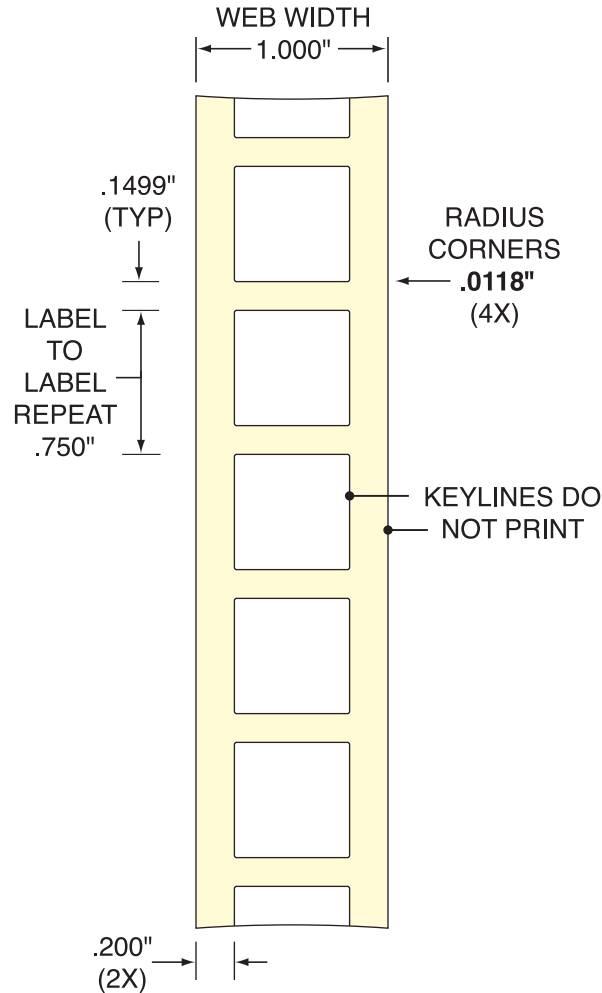


LINER

3.00" ID  
PLASTIC  
CORE



2 COPY  
FOOT FIRST



OK? LABEL SPECIFICATIONS:

1. SIZE: 0.6001" X 0.6001
2. SHAPE: Rectangle round corners w/ 0.0118" radius, Spacing: Over .10 for TH/TR
3. FORMAT: Rolls 1 across, 1.0000" wide, 5000 lbs/roll
4. MATERIAL: 3402-34 .002 White TH/TR Polyester perm adh 50# SCK liner
5. VARNISH: w/o varnish
6. OTHER: Not serialized, Not CSA approved, Not UL approved, No EDP holes



STEVEN  
LABEL

FOR:

Mirion Technologies

PART NO.:

MIR:ID2 BACK SERIAL

REV.:

A

ENV ID.:

M5735

TITLE:

Rear\_Product\_Label

APPROVED BY:

Signed

Printed

Name

Date

ARTIST:

CUSTOMER SERVICE:

PRODUCTION NO. /

04C-985-01

DATE:

05/05/17