

**2 Mil White Polyester TC/S333/50#SCK  
ABC**

**Product Data  
Sheet  
Spec#: 72825**

<b>Facestock</b>	<b>Facestock physical properties</b>				
2 Mil White Polyester TC is a homogeneously pigmented white facestock featuring excellent tear strength, heat resistance, dimensional stability, opacity, and chemical resistance.		<b>Imperial Value</b>	<b>Units</b>	<b>Metric Value</b>	<b>Units</b>
	<b>Caliper:</b> ASTM D1000	0.0020	inches	50.80	micron
	<b>Tensile:</b> ASTM D882	<b>MD</b> 21,300	PSI	1,497	kg/cm2
		<b>CD</b> 28,400	PSI	1,997	kg/cm2

<b>Adhesive</b>	<b>Adhesive physical properties</b>				
S333 An excellent general purpose industrial grade clear permanent acrylic adhesive. Features high initial tack to most high and medium surface energy substrates. High shear strength for low ooze characteristics.		<b>Imperial Value</b>	<b>Units</b>	<b>Metric Value</b>	<b>Units</b>
	<b>Type:</b>	Emulsion Acrylic			
	<b>Caliper:</b> ASTM D1000	0.0008	inches	20.32	micron
	<b>Standard Coat Wt:</b>			26	g/sq m
	<b>Minimum Appl Temp:</b>	25	F	-4	C
	<b>Service Temp Range:</b>	<b>Min</b> -40	F	-40	C
		<b>Max</b> 300	F	149	C
	<b>Loop Tack Stainless Steel: PSTC11</b>	59.2	oz/inch	65.1	N/100 mm

<b>Liner</b>	<b>Liner physical properties</b>				
50#SCK is a bleached, super-calendered paper stock with very good diecutting and matrix stripping properties. Supplied with an Anti Block Coating ("ABC") on the backside of the liner to control adhesive and label transfer to the backside of the liner in finished, wound rolls. This liner should not be used in fanfolded label applications and is not		<b>Imperial Value</b>	<b>Units</b>	<b>Metric Value</b>	<b>Units</b>
	<b>Caliper:</b> ASTM D1000	0.0032	inches	81.2800	micron
	<b>Basis Wt:</b> TAPPI T410 * (24" x 36" 500 sheets)	54.5	lbs/ream	88.8	g/sq m
	<b>Tensile:</b> ASTM D882	<b>MD</b> 48.0	lbs/inch	211.2	N/25 mm
		<b>CD</b> 26.0	lbs/inch	114.4	N/25 mm
	<b>Tear:</b> TAPPI T414	<b>MD</b> 1.8	ounces	49.9	grams
		<b>CD</b> 2.1	ounces	58.2	grams

recommended for back  
printability.

**Liner Release:**

TMLI 90° removal of Liner from Facestock.

**Total Construction Caliper  
(approximate):**

Rate of Removal	Grams/2" Width	
400 inches/min.	40	0.006 inches (6 mils; 152 micron)

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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 most wax/resin and resin based ribbons.
- Excellent chemical resistance and good outdoor durability

## Applications and Uses

This product is suitable for a variety of durable labeling applications such as:

- Product identification labels
- Barcode labels
- Rating plates
- Work in process (WIP) labels
- Property identification or asset tags
- Durable goods labeling
- Recognized for UL969 component labels. This product is UL Recognized and CSA Accepted for indoor and outdoor applications. For specific recognition or acceptance details, consult UL file MH17205 and CSA file 97198

## Printing and Converting

The topcoat 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 normally not necessary; however, testing is recommended prior to final ink selection. Also suitable for thermal transfer printing with select ribbons and printers. Consult product recognition files or Fasson Thermal Transfer Ribbon Guide for specific recommendations. This product can be diecut 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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Sheet

Appendix

Performance Data:

The following technical data should be considered representative or typical only and should not be used for specification purposes.

	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	55	61	60	66	63	70	89	98
2. Stainless Steel	36.5	40.2	59.6	65.6	68.4	75.2	70.4	77.4
3. ABS Plastic	51.5	56.7	62.9	69.2	60.2	66.2	37.1	40.8
4. Polypropylene	19	21	5.4	5.9	28	31	19	21
5. HDPE	11.2	12.3	12.9	14.2	17.2	18.9	33.4	36.7
6. LDPE	13	14.3	28	31	12	13	15	16

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
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Chemical	oz/in	N/100mm	Appearance	Penetration mm
1. 70% IPA	57.3	63	No Chnage	3.8
2. Tide® Detergent	40.5	44.6	No Change	0
3. Engine Oil (10W30)	46	50.6	No Change	0
4. Water	26.5	29.2	No Change	0
5. Ammonia - pH 11	0	0	No Change	0
6. 409® Cleaner	0.2	0.2	No Change	0
7. Toluene	12.4	13.6	No Change	3.3
8. Brake Fluid	48.96	53.9	No Change	0
9. Reference Fuel C	21.12	23.2	No Change	10.2
10. Kerosene K1	41.3	45.4	No Chnage	0
11. Heptane	47.5	52.3	No Change	0

**Compliance Recognition:** UL, CSA



**Underwriters Laboratories, Inc.**

Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor Only I/O=Indoor & Outdoor)
	°F	°C	°F	°C	
1. Aluminum	-40	-40	302	150	I/O
2. Galvanized Steel	-40	-40	302	150	I/O
3. Stainless Steel	-40	-40	302	150	I/O
4. Acrylic Paint	-40	-40	302	150	I/O
5. Epoxy Paint	-40	-40	302	150	I/O
6. Porcelain	-40	-40	302	150	I/O
7. Alkyd Enamel	-40	-40	302	150	I/O
8. Polyester Paint	-40	-40	302	150	I/O
9. Nylon	-40	-40	212	100	I/O
10. Polycarbonate	-40	-40	212	100	I/O

11. Melamine	-40	-40	212	100	I/O
12. Polystyrene	-40	-40	176	80	I/O
13. ABS Plastic	-40	-40	176	80	I/O
14. Unsat Thermoset Polyester	-40	-40	212	100	I
15. Phenolic	-40	-40	212	100	I
16. Polyphenylene Oxide	-40	-40	176	80	I
			140	60	I
17. Polyethylene					
18. and others					

**Recognized Ribbons:**

Armor "AXR7+", Armor "AXR600", Astro Med Inc "R-5", Astro Med "RF", Dai Nippon "R-300", Dai Nippon "R-510", Iimak "SP-410", Iimak "SP-330", Iimak "Primemark", Intermec "TMX 1500", Intermec "TMX 3200", ITW "R-91, ITW "B324", Japan Pulp & Paper "Resin 1", Japan Pulp & Paper "Sigma P", Kurz "K300", Kurz "K500", Kurz "K501", NCR "Promark 3", NCR "Resin Max", NCR "Perma Max", NCR "K3", Ricoh "B110C", Ricoh "B110CX", Ricoh "120EC", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR4075", Sony "TR5070", Sony "TR6070", Sony "TR6075", Sony "Signature Series Resin", Union Chemcar "US300", Zebra "5095", Zebra "5100", Zebra "5463", Zebra "Z-4100", and others.



**Canadian Standards**

**Association**

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

**Acceptable**

Dai Nippon "R-300", Dai Nippon "R-510", Iimak "SP-330", ITW "R-91, Japan

**Ribbons:** Pulp & Paper "Resin 1", NCR "Promark 3", Ricoh "B110C", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR5070", Sony "Signature Series Resin", Zebra "5095", Zebra "Z-4100"

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**Avery Dennison**  
**Fasson Roll North America**  
8080 Norton Parkway  
Mentor, OH 44060  
800-944-8511 (US & Canada)  
52-55-5093-0100 (Mexico)

