DURABLE PORTFOLIO

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Product Data Sheet

2 Mil White PET TC/S8015/50# SCK ABC

Spec#: 76656

Facestock

2 Mil White Polyester TC is a homogenously pigmented white facestock featuring excellent tear strength, heat resistance, dimensional stability, opacity and chemical resistance.

Facestock physical properties

		Imperial Value	Units	Metric Value	Units
Caliper: ASTM D1000		0.0020	inches	50.80	micron
Tensile: ASTM D882	**MD**	21,300	PSI	1,497	kg/cm2
	CD	28,400	PSI	1,997	kg/cm2

Adhesive

S8015 adhesive is a high strength clear adhesive featuring high initial tack, adhesion and shear. Offers strong permanent bonding to a wide variety of substrates including high surface energy (HSE), low surface energy (LSE) and powder coat substrates. Excellent chemical and UV resistance.

Adhesive physical properties

		Imperial Value	Units	Metric Value	Units
Type:		Solvent Acrylic			
Caliper: ASTM D1000		0.0010	inches	25.40	micron
Standard Coat Wt:				32	g/sq m
Minimum Appl Temp:		45	F	7	C
Service Temp Range:	**Min**	-30	F	-34	C
	Max	300	F	149	C
Loop Tack Stainless Steel: PSTC11		110.0	oz/in	121.0	N/100mm

Liner

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 recommended for back printability.

Liner physical properties

		Imperial Value	Units	Metric Value	Units
Caliper: ASTM D1000		0.0032	inches	81.2800	micron
Basis Wt: TAPPI T410 * (24" x 36" 500 sheets)		54.5	lbs/ream	88.8	g/sq m
Tensile: ASTM D882	**MD**	48.0	lbs/inch	211.2	N/25 mm
	CD	26.0	lbs/inch	114.4	N/25 mm
Tear: TAPPI T414	**MD**	1.8	ounces	49.9	grams
	CD	2.1	ounces	58.2	grams

Liner Release:

TMLI 90° removal of Liner from Facestock.

Rate of Removal	Grams/2" Width
400 inches/min.	60

Total Construction Caliper (approximate):

0.0060 inches

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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 ribbons
- Top coat and adhesive have excellent chemical resistance

Applications and Uses

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

- Product identification labels
- Barcodes and rating plates
- Work in progress labels (WIP)
- Property identifcation and asset tags
- Durable goods labeling
- Automotive exterior or underhood labels. Meets GM6121M Type A & B; Daimler Chrysler MS-CG121 Type A, B, & D; Ford WSS-M99P34 Types A, A2, A3, & A4
- UL Rating plates. This product is UL and UL-c recognized for indoor and outdoor use (see appendix). For specific information, see UL file # MH17205 for conditions of recognitions

Printing and Converting

The top coat is designed for printing by flexography with most solvent and some water based inks. Specially formulated inks are normally not needed, however, testing is recommend prior to final ink selection. Suitable for thermal transfer printing applications with select ribbons and printer models. This product can be die cut and stripped at high speeds on standard 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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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^{0}F		96 Hours at 150^{0}F (65^{0}C) & 80% Relative Humidity	
Surface	**oz/in**	**N/100mm**	**oz/in**	**N/100mm**	**oz/in**	**N/100mm**	**oz/in**	**N/100mm**
1. Stainless Steel	82.1	90.3	73.7	81.1	77.4	85.1	83.7	92.1
2. Aluminum	83.7	92.1	54.8	60.3	60.5	66.6	81.1	89.2
3. Polypropylene	52.2	57.4	23.9	26.3	65.4	71.9	59.2	65.1
4. HDPE	43.2	47.5	40.4	44.4	41.7	45.9	46.4	51
5. LDPE	42.1	46.3	74.5	82	21.4	23.5	2.2	2.4
6. ABS Plastic	73	80.3	82.4	90.6	78.5	86.4	23.2	25.5

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	73.4	80.7	No Change	0
2. Tide® Detergent	58.5	64.4	No Change	0
3. Engine Oil (10W30)	62.5	68.8	No Change	0
4. Water	66.7	73.4	No Change	0
5. Ammonia - pH 11	27.3	30	No Change	0
6. 409® Cleaner	28.9	31.8	No Change	0
7. Toluene	17.8	19.6	No Change	8.9
8. Brake Fluid	68.3	75.1	No Change	0
9. Reference Fuel C	35.2	38.7	No Change	6.4
10. Kerosene K1	46.2	50.8	No Change	3.3
11. Heptane	12.9	14.2	No Change	3.6

Compliance Recognition: UL, C-U

Underwriters Laboratories, Inc.

	Minimum Temperature		Maximum Temperature		
Substrates	**°F**	**°C**	**°F**	**°C**	**(I=Indoor Only I/O=Indoor & Outdoor)**
1. Stainless Steel	-40	-40	302	150	I/O
2. Galvanized Steel	-40	-40	302	150	I/O
3. Polyurethane Powder Paint	-40	-40	302	150	I/O
4. Epoxy Paint	-40	-40	302	150	I/O
5. Porcelain	-40	-40	302	150	I/O
6. Alkyd Enamel	-40	-40	302	150	I/O
7. Aluminum	-9	-23	302	150	I/O
8. Unsat Thermoset Polyester	-9	-23	302	150	I/O
9. Epoxy PCP*	-40	-40	302	150	I/O
10. Polyester Powder Paint	-9	-23	302	150	I/O
11. Polyester Paint	-40	-40	302	150	I/O
12. Acrylic Powder Paint	-9	-23	302	150	I/O
13. Acrylic Paint	-40	-40	212	100	I/O
14. Phenolic	-9	-23	212	100	I/O
15. Polycarbonate	-40	-40	176	80	I/O
16. Nylon	-40	-40	176	80	I/O
17. Polyphenylene Oxide	-9	-23	140	60	I/O
18. ABS Plastic	-9	-23	104	40	I/O
19. Polystyrene			104	40	I
20. Polypropylene			104	40	I
21. Polyethylene					
22. and others					
23. *PCP=Powder Coat Paint					

Recognized Ribbons: Armor "AXR8", Armor "AXR600", Astro Med Inc "R-5", Astro Med "RF", Astro Med "RY", Coding Prds "5940", 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", Mid City Columbia "CGL-80HE", Mid City Columbia "MCC-23HE", NCR "Promark 3", NCR "Perma Max", NCR "K3", Ricoh "B110C", Ricoh "B110CX", Ricoh "B110CR", Ricoh "120EC", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR4075", Sony "TR5070", Sony "TR6070", Sony "TR6075", Sony "Signature Series Resin", Union Chemicar "US300", Zebra "5095", Zebra "5100", Zebra "5175", Zebra "5463", Zebra

"5555", Zebra "Z-4100", and others.

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

	Minimum Temperature		Maximum Temperature		
Substrates	**°F**	**°C**	**°F**	**°C**	**(I=Indoor Only I/O=Indoor & Outdoor)**
1. Metals	-40	-40	302	150	I/O
2. Electrostatic Paints	-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", Astro Med "RY", Dai Nippon "R-300", Dai Nippon "R-510", Japan Pulp & Paper "Resin 1", Kurz "K500", Mid City Columbia "CGL-80HE", Mid City Columbia "MCC-23HE", NCR "Promark 3", Ricoh "B110C", Ricoh "B110CR", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR5070", Sony "TR6070", Sony "TR6075", Sony "Signature Series Resin", Union Chemicar "US300", Zebra "5100", and others.

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