

Facestock		Facestock physical properties				
2 Mil Matte White Topcoated Polyester is a homogeneously pigmented white film facestock featuring excellent tear strength, heat resistance, dimensional stability, opacity and chemical resistance. Matte topcoat is designed to offer excellent printability and durability with a variety of printing processes.		Imperial Value	Units	Metric Value	Units	
	Caliper: ASTM D1000	0.0020	inches	50.80	micron	
	Tensile: ASTM D882	MD	23,000	PSI	1,617	kg/sq.cm
		CD	18,000	PSI	1,265	kg/sq.cm

Adhesive		Adhesive physical properties				
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.		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		Liner physical properties				
50#SCK is a bleached, super-calendered paper stock with very good diecutting and matrix stripping properties. Suitable for back-printing with standard inks.		Imperial Value	Units	Metric Value	Units	
	Caliper: ASTM D1000	0.0032	inches	81.2800	microns	
	Basis Wt: TAPPI T410 <small>*(24" x 36" 500 sheets)</small>	53.9	lb/ream	86.2	g/sq m	
	Tensile: ASTM D882	MD	48.0	lb/inch	211.2	N/25 mm
		CD	26.0	lb/inch	114.4	N/25 mm
	Tear: TAPPI T414	MD	1.8	ounces	51.1	grams
		CD	2.0	ounces	56.8	grams

Liner Release:		Total Construction Caliper
TMLI 90° removal of Liner from Facestock.		(approximate):
Rate of Removal	Grams/2" Width	
400 inches/min.	60	0.0062 inches (6.2 mils; 157.5 micron)

Features and Benefits

- Opaque white facestock with very good hiding power and physical strength
- Matte top coat accepts most flexographic, letterpress, and rotary screen inks
- Very Good 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 identification and asset tags
- Durable goods labeling
- Automotive exterior or underhood labels
- 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.

Appendix

Performance Data:

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

Surface	Initial (15 minute dwell)		72 Hours at Room Temperature		72 Hours at 120°F		9
	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	8
2. Aluminum	83.7	92.1	54.8	60.3	60.5	66.6	8
3. Polypropylene	52.2	57.4	23.9	26.3	65.4	71.9	5
4. HDPE	43.2	47.5	40.4	44.4	41.7	45.9	4
5. LDPE	42.1	46.3	74.5	82	21.4	23.5	
6. ABS Plastic	73	80.3	82.4	90.6	78.5	86.4	2

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.

Chemical	Adhesion to Stainless Steel		Visual Appearance	9
	oz/in	N/100mm		
1. 70% IPA	73.4	80.7	No Change	
2. Tide® Detergent	58.5	64.4	No Change	
3. Engine Oil (10W30)	62.5	68.8	No Change	
4. Water	66.7	73.4	No Change	
5. Ammonia - pH 11	27.3	30	No Change	
6. 409® Cleaner	28.9	31.8	No Change	
7. Toluene	17.8	19.6	No Change	
8. Brake Fluid	68.3	75.1	No Change	
9. Reference Fuel C	35.2	38.7	No Change	
10. Kerosene K1	46.2	50.8	No Change	
11. Heptane	12.9	14.2	No Change	

Compliance Recognition: UL CSA C-U



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Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor C I/O=Indoor & C
	°F	°C	°F	°C	
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	-40	-40	302	150	I/O
8. Unsat Thermoset Polyester	-9	-23	302	150	I/O
9. Epoxy Powder Paint	-9	-23	302	150	I/O
10. Polyester Powder Paint	-40	-40	302	150	I/O
11. Polyester Paint	-9	-23	302	150	I/O
12. Acrylic Powder Paint	-40	-40	302	150	I/O
13. Acrylic Paint	-9	-23	302	150	I/O
14. Phenolic	-40	-40	212	100	I/O
15. Polycarbonate	-9	-23	212	100	I/O
16. Nylon	-40	-40	176	80	I/O
17. Polyphenylene Oxide	-40	-40	176	80	I/O
18. ABS Plastic	-9	-23	140	60	I/O
19. Polystyrene	-9	-23	104	40	I/O
20. Polyethylene			104	40	I
21. Polypropylene			104	40	I
22. and others					

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", limak "SP-410", limak "SP-330", limak "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.



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to meet the requirements of the Canadian Standards Association for labeling materials

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Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor Only I & Outdoor)
	°F	°C	°F	°C	
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 Chemicalar "US300", Zebra "5100", and others.

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