2 Mil Clear Polyester TC/S8025/50#SCK

Product Data Sheet
Spec#: 77921

Facestock	**Facestock physical properties**						
2 Mil Clear Topcoated Polyester is a highly transparent overlaminating film featuring excellent tear strength, heat resistance, dimensional stability and chemical resistance. 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**	31,200	PSI		2,193	kg/sq cm
	CD	36,900	PSI		2,594	kg/sq cm

Adhesive	**Adhesive physical properties**						
S8025 is a high performance, clear permanent solvent 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 for good short term repositionability, low ooze, and excellent chemical and UV resistance for outdoor industrial applications.		**Imperial Value**	**Units**		**Metric Value**	**Units**
	Type:	Solvent Acrylic				
	Caliper: ASTM D1000	0.0009	Inches		22.86	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	50.6	oz/in		55.7	N/100 mm

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 * (24" x 36" 500 sheets)	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: TMLI 90° removal of Liner from Facestock.		**Total Construction Caliper** (approximate):
Rate of Removal	**Grams/2" Width**	
400 inches/min.	55	0.0061 inches (6.1 mils; 154.9 microns)

Features and Benefits

- Crystal clear facestock with low haze and excellent physical strength
- Glossy clear topcoat which accepts most flexographic, letterpress, and rotary screen inks
- Excellent thermal transfer printability with most wax/resin and resin ribbons
- Topcoat 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
- UL and UL-c recognized for indoor and outdoor use. Specific recognition information will be found in UL file # MH17205.

Printing and Converting

The topcoat is designed for printing by flexography with most solvent and some water based inks. Specially formulated inks are normally not needed; however, testing is recommended prior to final ink selection. Suitable for thermal transfer printing applications with select ribbons and printer models. This product can be diecut 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.

	Initial (15 minute dwell)		72 Hours at Room Temperature		72 Hours at 120°F		9
Surface	**oz/in**	**N/100mm**	**oz/in**	**N/100mm**	**oz/in**	**N/100mm**	**o**
1. Stainless Steel	62.7	69	65.8	72.4	75.2	82.7	8
2. Aluminum	42.7	47	52.8	58.1	67.2	73.9	8
3. Polypropylene	52.3	57.5	62.9	69.2	59.2	65.1	5
4. HDPE	32	35.2	32	35.2	36.8	40.5	3
5. LDPE	24.8	27.3	42.1	46.3	35.4	38.9	2
6. ABS Plastic	56.2	61.8	65.6	72.2	56	61.6	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	
Chemical	**oz/in**	**N/100mm**	**Appearance**	
1. 70% IPA	43	47.3	No Change	
2. Tide® Detergent	57.9	63.7	No Change	
3. Engine Oil (10W30)	53.6	59	No Change	
4. Water	60	66	No Change	
5. Ammonia - pH 11	42.4	46.6	Edge Swell	
6. 409® Cleaner	56.2	61.8	No Change	
7. Toluene	29.4	32.3	Edge Swell	
8. Brake Fluid	51	56.1	No Change	
9. Reference Fuel C	48.8	53.7	Edge Swell	
10. Kerosene K1	56.5	62.2	No Change	
11. Heptane	43	47.3	No Change	

Compliance Recognition: ☒ UL ☐ CSA ☒ C-U

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

Recognized Ribbons: Armor "AXR7+", 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 "B324", Kurz "K300", Kurz "K500", Kurz "K501", NCR "Promark 3", NCR "Pacesetter", NCR "Ultra V", NCR "Perma Max", NCR "K3", Ricoh "B110C", Ricoh "B110CR", Ricoh "120EC", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR4075", Sony "TR5070", Sony "TR6070", Sony "TR6075", Sony "TRX75", 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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	Minimum Temperature		Maximum Temperature		
Substrates	**˚F**	**˚C**	**˚F**	**˚C**	**(I=Indoor Only I & Outdo**
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", Kurz "K500" NCR "Promark 3", Ricoh "B110C", Ricoh "B110CR", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR5070", Sony "TRX75", Sony "Signature Series Resin", Union Chemicar "US300", Zebra "5100", and others.

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