

1 Mil Clear Polyester TC/S333/50# SCK ABC

Product Data Sheet
Spec#: 73302

Facestock		Facestock physical properties							
1 Mil Clear Topcoated Polyester is a highly transparent 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				0.0010	inches	25.40	micron
		Tensile: ASTM D882		MD		32,700	PSI	2,299	kg/sq.cm
				CD		38,400	PSI	2,700	kg/sq.cm

Adhesive		Adhesive physical properties							
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.				Imperial Value	Units	Metric Value	Units		
		Type:				Emulsion Acrylic			
		Caliper: ASTM D1000				0.0008	inches	20.32	micron
		Standard Coat Wt:						26	g/sq m
		Minimum Appl Temp:				25	F	-4	C
		Service Temp Range:		Min		-40	F	-40	C
				Max		300	F	149	C
Loop Tack Stainless Steel: PSTC11				59.2	oz/inch	65.1	N/100 mm		

Liner		Liner physical properties							
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.				Imperial Value	Units	Metric Value	Units		
		Caliper: ASTM D1000				0.0032	inches	81.2800	micron
		Basis Wt: TAPPI T410 <small>* (24" x 36" 500 sheets)</small>				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:		Total Construction Caliper
TMLI 90° removal of Liner from Facestock.		(approximate):
Rate of Removal	Grams/2" Width	
400 inches/min.	40	0.0050 inches (5 mils; 127 microns)

Features and Benefits

- Crystal clear facestock with low haze and excellent 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 identification and asset tags
- Durable goods labeling
- UL Rating plates. This product is UL 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 moderate speeds on standard web-fed presses. Sample labels in a variety of shapes have been successfully dispensed and applied with standard labeling systems, however, testing is recommended prior to production commitments.

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		
	oz/in	N/100mm	oz/in	N/100mm	oz/in	N/100mm	
1. Aluminum	55	61	60	66	63	70	9
2. Stainless Steel	36.5	40.2	59.6	65.6	68.4	75.2	7
3. ABS Plastic	51.5	56.7	62.9	69.2	60.2	66.2	3
4. Polypropylene	19	21	5.4	5.9	28	31	
5. HDPE	11.2	12.3	12.9	14.2	17.2	18.9	3
6. LDPE	13	14.3	28	31	12	13	

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	
	oz/in	N/100mm		
1. 70% IPA	57.3	63	No Chnage	
2. Tide® Detergent	40.5	44.6	No Change	
3. Engine Oil (10W30)	46	50.6	No Change	
4. Water	26.5	29.2	No Change	
5. Ammonia - pH 11	0	0	No Change	
6. 409® Cleaner	0.2	0.2	No Change	
7. Toluene	12.4	13.6	No Change	
8. Brake Fluid	48.96	53.9	No Change	
9. Reference Fuel C	21.12	23.2	No Change	
10. Kerosene K1	41.3	45.4	No Chnage	
11. Heptane	47.5	52.3	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. 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	212	100	I/O
8. Polyester Paint	-40	-40	212	100	I/O
9. Polycarbonate	-40	-40	176	80	I/O
10. Unsat Thermoset Polyester	-40	-40	212	100	I
11. Melamine	-40	-40	212	100	I
12. Nylon	-40	-40	212	100	I
13. Phenolic	-40	-40	212	100	I
14. Polyphenylene Oxide	-40	-40	176	80	I
15. Polystyrene	-40	-40	176	80	I
16. ABS Plastic	-40	-40	176	80	I
17. Polyethylene			140	60	I

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", limak "SP-410", limak "SP-330", limak "Primemark", Intermec "TMX 1500", Intermec "TMX 3200", ITW "B324", Japan Pulp & Paper "Resin 1", Japan Pulp & Paper "Sigma P", Kurz "K300", Kurz "K500", Kurz "K501", NCR "Promark 3", 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 "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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