

1 Mil Clear TC Polyester /S8020/1M PET

Facestock		Facestock physical properties				
1 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	0.0010	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				
S8020 is a clear, permanent acrylic adhesive designed for overlaminating films. It exhibits a balance of high cohesive strength and adhesion to low surface-energy substrates. Specifically designed to exhibit excellent wetout characteristics, good yellowing resistance, and excellent clarity.		Imperial Value	Units	Metric Value	Units	
	Type:	Emulsion Acrylic				
	Caliper: ASTM D1000	0.0007	inches	17.78	micron	
	Standard Coat Wt:			19	g/sq m	
	Minimum Appl Temp:	23	F	-5	C	
	Service Temp	Min	-40	F	-40	C
	Range:	Max	300	F	149	C
Loop Tack Stainless Steel: PSTC11	40.0	oz/inch	44.0	N/100 mm		

Liner		Liner physical properties				
1 mil clear polyester liner suitable for high speed diecutting and stripping applications.		Imperial Value	Units	Metric Value	Units	
	Caliper: ASTM D1000	0.0011	inch	26.9240	micron	
	Basis Wt: TAPPI T410 * (24" x 36" 500 sheets)				g/sq m	
	Tensile: ASTM D882	MD	35,000.0	PSI	3,500.0	kg/sq cm
		CD	35,000.0	PSI	3,500.0	kg/sq cm
	Tear: TAPPI T414	MD				
CD						

Liner Release:		Total Construction Caliper
TMLI 90° removal of Liner from Facestock.		(approximate):
Rate of Removal	Grams/2" Width	0.00270 inches (2.7 mils; 70.1 micron)
400 inches/min.	50	

Features and Benefits

- Crystal clear facestock for unobstructed view of printing underneath
- Top coated facestock to enhance thermal transfer printing.
- Smooth polyester liner imparts a smooth adhesive coat for faster wet out and clear view of printed label surface.
- UL and c-UL recognized for overlamination and thermal transfer printing. See UL files MH8212 and MH17205 for specific recognized conditions.

Applications and Uses

Designed for overlamination of polyester or vinyl label materials to protect press printing from abrasion or chemical exposures. Can also be added on top of other materials to make them thermal transfer printable. Can be used on bright metallic backgrounds or large dark flood coated surfaces.

Printing and Converting

Can be thermal transfer printed with a number of select resin or resin/wax ribbons. See Fasson Thermal Transfer Ribbon Compatibility Matrix or UL file. Overlaminations can be aids to matrix stripping and automatic label dispensing.

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. Aluminum	55	61	60	66	63	70	
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 Change	
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 Change	
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. on PET Labels	-40	-40	302	150	I/O
2. on PVC Labels	-40	-40	140	60	I/O

Recognized Ribbons:

Armor "AXR7+", Armor "AXR8", Armor "AXR600", Astro Med Inc "R-5", Astro Med "RF", Coding Prds "5940", Dai Nippon "R-300", Dai Nippon "R-510", Iimak "SP-410", Iimak "SP-330", ITW "B324", Japan Pulp & Paper "Resin 1", Japan Pulp & Paper "Sigma P", Kurz "K300", Kurz "K500", Mid City Columbia "CGL-80HE", Mid City Columbia "MCC-23HE", NCR "Perma Max", NCR "K3", Ricoh "B110C", Ricoh "B110CX", Ricoh "B110CR", Ricoh "120EC", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR5070", Sony "TR6070", Sony "TR6075", Sony "TRX75", Sony "Signature Series Resin", Union Chemicar "US300", Zebra "5095", Zebra "5100", Zebra "Z-4100", and others.



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Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor Only I & Outdoor
	°F	°C	°F	°C	
1. on PET Labels	-40	-40	302	150	I/O
2. on PVC Labels	-40	-40	140	60	I/O

Recognized Ribbons:

Armor "AXR7+", Armor "AXR8", Astro Med "RY", Coding Prds "5940", 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 "Signature Series Resin", Union Chemicar "US300", Zebra "5100", and others.

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