

Facestock		Facestock physical properties				
2 Mil White Polyester TC is a homogeneously pigmented white facestock featuring excellent tear strength, heat resistance, dimensional stability, opacity, and chemical resistance.		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		Adhesive physical properties				
R143 is a visually clear acrylic based removable adhesive with versatile performance properties. It features superior cohesive strength for high creep resistance, moderately high tack and adhesion, yet clean repositionability over extended contact periods on most substrates. This adhesive complies with the European Directive 2002/95/EC of January 27, 2003, for the restriction of use of certain hazardous substances.		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	250	F	121	C
	Loop Tack Stainless Steel: PSTC11	20.0	oz/inch	22.0	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 <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.	55	0.0061 inches (6.1 mils; 154.9 microns)

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 based ribbons.

Applications and Uses

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

- Product identification labels
- Barcode labels
- Rating plates
- Work in process (WIP) or other temporary label
- Durable goods protect film
- UL component labels. This product is UL and CSA recognized for indoor and outdoor applications. For specific recognition or acceptance details, consult file UL file MH17205 and CSA file 97198

Printing and Converting

The top coat is designed for printing by most solvent, UV cured, and water-based flexographic inks, UV cured letterpress, and rotary screen inks. Specially formulated inks are normally not necessary, however, testing is recommended prior to final ink selection. Also suitable for thermal transfer printing with select ribbons and printers. Consult product recognition files or Fasson Thermal Transfer Ribbon Guide for specific recommendations. This product can be die cut and stripped at high speeds on most 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	14.4	15.8	18.9	20.8	18.1	19.9	3
2. Aluminum	14.4	15.8	17.6	19.4	8.8	9.7	1
3. Polypropylene	4.8	5.3	5.76	6.3	9.44	10.4	8
4. HDPE	3.2	3.5	4.47	4.9	4.32	4.8	7
5. LDPE	0	0	0	0	0	0	-
6. ABS Plastic	9.6	10.6	13.9	15.3	13	14.3	-

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	9.1	10	No Change	
2. Tide® Detergent	3.84	4.2	No Change	
3. Engine Oil (10W30)	17	18.7	No Change	
4. Water	6.6	7.3	No Change	
5. Ammonia - pH 11	3.68	4	No Change	
6. 409® Cleaner	3.8	4.2	No Change	
7. Toluene	5.9	6.5	No Change	
8. Brake Fluid	14.4	15.8	No Change	
9. Reference Fuel C	9.1	10	Edge Lift	
10. Kerosene K1	8.5	9.4	No Change	
11. Heptane	10.9	12	No Change	

Compliance Recognition: UL CSA C-U



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Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor O I/O=Indoor & C
	°F	°C	°F	°C	
1. Aluminum	-40	-40	302	150	I
2. Stainless Steel			302	150	I
3. Alkyd Enamel			302	150	I
4. ABS Plastic			176	80	I
5. Polystyrene			176	80	I

Recognized Ribbons:

Armor "AXR7+", Armor "AXR600", Astro Med Inc "R-5", Astro Med "RF", 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", NCR "Promark 3", NCR "Perma Max", NCR "K3", Ricoh "B110C", Ricoh "B110CX", Ricoh "120EC", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR4075", Sony "TR5070", Sony "TR6070", Sony "TR6075", Sony "Signature Series Resin", Union Chemcar "US300", Zebra "5095", Zebra "5100", Zebra "5175", Zebra "5463", Zebra "Z-4100", and others.



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Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor O I/O=Indoor & C
	°F	°C	°F	°C	
1. Metals	-40	-40	302	150	I
2. Plastics Group I	-40	-40	212	100	I
3. Plastics Group II	-40	-40	176	80	I
4. Plastics Group III	-40	-40	176	80	I
5. Plastics Group V	-40	-40	176	80	I
6. Plastics Group VI	-40	-40	176	80	I
7. Plastics Group VII	-40	-40	176	80	I
8. Plastics Group VIII	-40	-40	176	80	I

Acceptable Ribbons:

limak "SP-330", Japan Pulp & Paper "Resin 1", Ricoh "B110C", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR5070", Sony "Signature Series Resin", Zebra "5095"

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