

Fasson® 2 Mil White Print-Treated Polyester/R143/50#SCK
Product Data Sheet
Spec#: 71055

Facestock		Facestock physical properties					
2 mil white print-treated polyester is a pigmented white semi-gloss film facestock featuring excellent tear strength, heat resistance, dimensional stability, opacity, and chemical resistance. Print treatment is designed to enhance printability with a variety of printing processes.			Imperial Value	Units		Metric Value	Units
	Caliper:		0.0020	inches		50.80	micron
	ASTM D1000						
	Tensile:	MD	21,000	psi		1,476	kg/sq cm
	ASTM D882	CD	31,000	psi		2,179	kg/sq cm

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:		0.0009	inches		22.86	microns
	ASTM D1000						
	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 die-cutting and matrix stripping properties. Used for standard roll-to-roll applications. Not recommended for sheeting.			Imperial Value	Units		Metric Value	Units
	Caliper:		0.0032	inches		81.2800	micron
	ASTM D1000						
	Basis Wt: TAPPI T410		54.5	lbs/ream		87.2	g/sq m
	* (24" x 36" 500 sheets)						
	Tensile:	MD	48.0	lbs/inch		211.2	N/25 mm
	ASTM D882	CD	26.0	lbs/inch		114.4	N/25 mm
	Tear:	MD	1.8	ounces		51.1	grams
	TAPPI T414	CD	2.1	ounces		59.6	grams

Liner Release:		Total Construction Caliper
TMLI 90° removal of Liner from Facestock.		(approximate):
Rate of Removal	Grams/2" Width	
400 inches/min.	60	0.0061 incheds (6.1 mils; 154.9 microns)

DURABLE PORTFOLIO

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Features and Benefits

- Opaque white facestock with very good hiding power and physical strength.
- Semi-gloss surface treatment accepts most flexographic, letterpress, and rotary screen inks.
- Good thermal transfer printability with most wax/resin and resin based ribbons.
- Excellent removability from most substrates up to 6 to 12 months.

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 surface treatment 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 diecut 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.

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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 ⁰ F		96 Hours at 150 ⁰ F (65 ⁰ C) & 80% Relative Humidity	
Surface	oz/in	N/100mm	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	32.48	35.7
2. Aluminum	14.4	15.8	17.6	19.4	8.8	9.7	13.76	15.1
3. Polypropylene	4.8	5.3	5.76	6.3	9.44	10.4	8.48	9.3
4. HDPE	3.2	3.5	4.47	4.9	4.32	4.8	7.52	8.3
5. LDPE	0	0	0	0	0	0	1.44	1.6
6. ABS Plastic	9.6	10.6	13.9	15.3	13	14.3	12.8	14.1

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	Edge
Chemical	oz/in	N/100mm	Appearance	Penetration mm
1. 70% IPA	9.1	10	No Change	0
2. Tide® Detergent	3.84	4.2	No Change	0
3. Engine Oil (10W30)	17	18.7	No Change	0
4. Water	6.6	7.3	No Change	0
5. Ammonia - pH 11	3.68	4	No Change	0
6. 409® Cleaner	3.8	4.2	No Change	0
7. Toluene	5.9	6.5	No Change	0
8. Brake Fluid	14.4	15.8	No Change	0
9. Reference Fuel C	9.1	10	Edge Lift	Lifted
10. Kerosene K1	8.5	9.4	No Change	0
11. Heptane	10.9	12	No Change	0

Compliance Recognition: UL, CSA



Underwriters Laboratories, Inc.

Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor Only I/O=Indoor & Outdoor)
	°F	°C	°F	°C	
1. Aluminum			302	150	I
2. Stainless Steel			302	150	I
3. Alkyd Enamel			302	150	I

Recognized Ribbons: Armor "AXR7+", Astro Med Inc "R-5", Dai Nippon "R-300", Dai Nippon "R-510", Iimak "SP-410", Iimak "SP-330", ITW "B324", Japan Pulp & Paper "Resin 1", NCR "Promark 3", Ricoh "B110C", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR4075", Sony "TR5070", Sony "TR6070", Sony "TR6075", Sony "Signature Series Resin", Union Chemicar "US300", Zebra "5095", Zebra "5175"



Canadian Standards Association

Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor Only I/O=Indoor & Outdoor)
	°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: Sony "TR5070"

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The information on compliance conditions, substrates, and printing products contained in the tables above represent a summary of recognized or acceptable conditions and printing products. Other conditions, substrates, and printing products may be recognized with this material. Please consult the specific compliance organization records or specific files for a complete listing.



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