

DURABLE PORTFOLIO

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

Product Data Sheet
Spec#: 72823 DURABLE

Facestock		Facestock physical properties				
2 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	0.0020	inches		50.80	micron
	Tensile: ASTM D882	MD	PSI		2,193	kg/sq cm
		CD	PSI		2,594	kg/sq cm

Adhesive		Adhesive physical properties				
S-333 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	Min	-40	F	-40	C
	Range:	Max	300	F	149	C
	Loop Tack Stainless Steel: PSTC11	35.8	oz/inch		39.4	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 * (24" x 36" 500 sheets)	54.5	lbs/ream		88.8	g/sq m
	Tensile: ASTM D882	MD	lbs/inch		211.2	N/25 mm
		CD	lbs/inch		114.4	N/25 mm
	Tear: TAPPI T414	MD	ounces		49.9	grams
		CD	ounces		58.2	grams

Liner Release:		Total Construction Caliper (approximate):
TMLI 90° removal of Liner from Facestock.		
Rate of Removal	Grams/2" Width	
400 inches/min.	40	0.006 inches (6 mils; 152 micron)

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Product Data Sheet**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 based ribbons.
- Excellent chemical resistance and good outdoor durability

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) labels
- Property identification or asset tags
- Durable goods labeling
- UL969 Yellow Card link: <https://iq.ul.com/ul/cert.aspx?ULID=101611762>
- Recognized for UL969 component labels. This product is UL969 Recognized and CSA Accepted for indoor and outdoor use (see appendix). For specific information and a complete product listing, see UL file #MH8212 for conditions on press-printed material or file #MH17205 for conditions on electronic printing, and CSA flie 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 3 (EU 2015/863)

The Fasson® product listed above meets the requirements specified by the European Union Directive Restriction of Hazardous Substances Directive 2002/95/EC, 2011/65/EU (RoHS 2) and as amended by (EU) 2015/863 (RoHS 3) .The heavy metals and phthalates called out in this directive are not intentionally used in the manufacture of Fasson® products and the totallevel of any incidental contamination of said substances in these products would be less than 100 ppm.

Optimal Storage Conditions

Unless otherwise specified in this document, ideally store at 72F and 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.

DURABLE PORTFOLIO**Product Data Sheet****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. Aluminum	55	61	60	66	63	70	89	98
2. Stainless Steel	36.5	40.2	59.6	65.6	68.4	75.2	70.4	77.4
3. ABS Plastic	51.5	56.7	62.9	69.2	60.2	66.2	37.1	40.8
4. Polypropylene	19	21	5.4	5.9	28	31	19	21
5. HDPE	11.2	12.3	12.9	14.2	17.2	18.9	33.4	36.7
6. LDPE	13	14.3	28	31	12	13	15	16

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	57.3	63	No Change	3.8
2. Tide® Detergent	40.5	44.6	No Change	0
3. Engine Oil (10W30)	46	50.6	No Change	0
4. Water	26.5	29.2	No Change	0
5. Toluene	12.4	13.6	No Change	3.3
6. Brake Fluid	48.96	53.9	No Change	0
7. Reference Fuel C	21.12	23.2	No Change	10.2
8. Kerosene K1	41.3	45.4	No Change	0
9. Heptane	47.5	52.3	No Change	0

Compliance Recognition: UL, CSA**Underwriters Laboratories, Inc.**

Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor Only I/O=Indoor & O=Outdoor)
	°F	°C	°F	°C	

					Outdoor)
1. Aluminum	-40	-40	302	150	I/O
2. Stainless Steel	-40	-40	302	150	I/O
3. Galvanized 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	302	150	I/O
8. Polyester Paint	-40	-40	302	150	I/O
9. Nylon	-40	-40	212	100	I/O
10. Polycarbonate	-40	-40	212	100	I/O
11. Melamine	-40	-40	212	100	I/O
12. Polystyrene	-40	-40	176	80	I/O
13. ABS Plastic	-40	-40	176	80	I/O
14. Unsat Thermoset Polyester	-40	-40	212	100	I
15. Phenolic	-40	-40	212	100	I
16. Polyphenylene Oxide	-40	-40	176	80	I
17. Polyethylene			140	60	I
18. and others					

Recognized Ribbons: Armor "AXR600", Astro Med Inc "R-5", Astro Med "RF", limak "SP-410", limak "SP-330", limak "Primemark", Intermec "TMX 1500", Intermec "TMX 3200", ITW "B324", Kurz "K300", Kurz "K500", Kurz "K501", NCR "Promark 3", NCR "Perma Max", NCR "K3", Ricoh "B110C", Ricoh "B110CX", Ricoh "120EC", Sato Corp. "Premier 1", Zebra "5095", Zebra "5100", Zebra "5463", Zebra "Z-4100", and others., Fujicopian FTX303, Fujicopian FTX303N, Fujicopian TTM-164, Fujicopian FTX304, Fujicopian TTM-46, Fujicopian FTX100, Fujicopian TRX-21, Dai Nippon "R-300", Dai Nippon "R-510", ITW "R-91, Japan Pulp & Paper "Resin 1", Japan Pulp & Paper "Sigma P", NCR "Resin Max", Sony "TR4070", Sony "TR4075", Sony "TR5070", Sony "TR6070", Sony "TR6075", Sony "Signature Series Resin", Union Chemicar "US300"



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/O
2. Plastics Group I	-40	-40	212	100	I/O
3. Plastics Group II	-40	-40	176	80	I/O
4. Plastics Group III	-40	-40	176	80	I/O
5. Plastics Group V	-40	-40	176	80	I/O
6. Plastics Group VI	-40	-40	176	80	I/O

7. Plastics Group VII	-40	-40	176	80	I/O
8. Plastics Group VIII	-40	-40	176	80	I/O

Acceptable Ribbons: Iimac "SP-330", Ricoh "B110C", Sato Corp. "Premier 1", Zebra "5095", Fujicopian FTX303, Fujicopian FTX303N, Fujicopian TTM-164, Sony "TR4070", Sony "TR5070", Sony "Signature Series Resin"

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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.

Warranty

All sales and contracts for sale are expressly conditioned on the buyer's assent to Avery Dennison's terms and conditions found on its website at label.averydennison.com/products. Avery Dennison hereby objects to any term, different from or additional to Avery Dennison's terms, contained in any buyer communication in any form, unless agreed to in a writing signed by an officer of Avery Dennison.

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