Product Data Sheet

2 Mil White Printable Polyester/S333/50#SCK ABC

Spec#: 72828 Durable

Facestock

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.

Facestock physical properties

		Imperial Value	Units	Metric Value	Units
Caliper: ASTM D1000		0.0020	inches	50.80	micron
Tensile: ASTM D882	**MD**	21,000	psi	1,476	kg/sq cm
	CD	31,000	psi	2,179	kg/sq cm

Adhesive

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.

Adhesive physical properties

		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		35.8	oz/inch	39.4	N/100 mm

Liner

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.

Liner physical properties

		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**	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:
TMLI 90° removal of Liner from Facestock.

Rate of Removal	Grams/2" Width
400 inches/min.	40

Total Construction Caliper (approximate):
0.0060 inches (6.0 mils; 152 micron)

Features and Benefits

- Opaque white facestock with very good hiding power and physical strength.
- Surface print treatment that accepts most flexographic, letterpress, and rotary screen inks.
- 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
- Rating plates
- Work in process (WIP) labels

- Property identification or asset tags
- Durable goods labeling
- Recognized for UL 969 component labels. This product is UL Recognized and CSA Accepted for indoor and outdoor applications. For specific recognition or acceptance details, consult UL file MH17205 and CSA file 97198

Printing and Converting
The print treated surface 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. 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.

	Initial (15 minute dwell)		72 Hours at Room Temperature		72 Hours at 120°F	
Surface	**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
3. ABS Plastic	51.5	56.7	62.9	69.2	60.2	66.2
4. Polypropylene	19	21	5.4	5.9	28	31
5. HDPE	11.2	12.3	12.9	14.2	17.2	18.9
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.

	Adhesion to Stainless Steel		Visual
Chemical	**oz/in**	**N/100mm**	**Appearance**
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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	Minimum Temperature		Maximum Temperature		
Substrates	**°F**	**°C**	**°F**	**°C**	**(I=Indoor C I/O=Indoor & 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. Nylon	-40	-40	212	100	I/O
10. Polycarbonate	-40	-40	176	80	I/O
11. Unsat Thermoset Polyester	-40	-40	212	100	I
12. Melamine	-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/O
16. ABS Plastic	-40	-40	176	80	I
17. Polyethylene			140	60	I
18. and others					

Recognized Ribbons: Armor "AXR7+", Armor "AXR8", Armor "AXR600", Astro Med Inc "R-5", Astro Med "RY", Coding Prds "5940", DNP "R-300", DNP "R-510", DNP "TR4070", DNP "Signature Series Resin", Iimak "SP-410", Iimak "SP-330", Iimak "Primemark", ITW "B324", Kurz "K500", NCR "Promark 3", NCR "Pacesetter", NCR "Ultra V", Ricoh "B110C", Ricoh "B110CR", Sato Corp. "Premier 1", UCA "US300", Zebra "5100", Zebra "5175", Zebra "5555", Zebra "Z-4100"



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	Minimum Temperature		Maximum Temperature		
Substrates	**˚F**	**˚C**	**˚F**	**˚C**	**(I=Indoor O I/O=Indoor & 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: DNP "R-300", DNP "R-510", Iimak "SP-330", Ricoh "B110C", Sato Corp. "Premier 1", Sony "TR5070", Zebra "5095", and others.

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Tide® is a registered trademark of the Procter & Gamble Company

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 www.na.fasson.com. 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.