

2.3 Mil White BOPP TC/S6600/50#SCK

Facestock	Facestock physical properties					
		Imperial Value	Units	Metric Value	Units	
2.3 Mil White BOPP TC is a heat set, biaxially-oriented, coextruded polypropylene film, with good opacity and a bright white high gloss background. The surface has been topcoated to give superior printability by flexographic, gravure, silkscreen and letterpress processes, using a wide variety of different inks. This facestock has excellent moisture resistance, and good diecutting and dispensing characteristics.	Caliper: ASTM D1000	0.0023	inches	58.42	micron	
	Tensile: ASTM D882	MD	26,825	psi	1,886	kg/sq cm
		CD	22,475	psi	1,580	kg/sq cm

Adhesive	Adhesive physical properties					
		Imperial Value	Units	Metric Value	Units	
S6600 is a highly aggressive tackified emulsion acrylic permanent adhesive with high adhesion to a wide variety of substrates including low surface energy substrates such as polypropylene, HDPE and LDPE.	Type:	Emulsion Acrylic				
	Caliper: ASTM D1000	0.0008	inches	20.32	micron	
	Standard Coat Wt:			27	g/sq m	
	Minimum Appl Temp:	30	F	-1	C	
	Service Temp Range:	Min	-40	F	-40	C
		Max	300	F	149	C
	Loop Tack Stainless Steel: PSTC11	76.5	oz/inch	84.2	N/100 mm	

Liner	Liner physical properties					
		Imperial Value	Units	Metric Value	Units	
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.	Caliper: ASTM D1000	0.0032	inches	81.2800	micron	
	Basis Wt: TAPPI T410 * (24" x 36" 500 sheets)	54.5	lbs/ream	87.2	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	51.1	grams
		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.	50	0.0063 inches (6.3 mils; 160 microns)

Features and Benefits

- Biaxially oriented for excellent converting and dispensing characteristics
- Top coated for excellent printability
- Good adhesion to low surface energy substrates like polypropylene
- Acid and chemical resistant adhesive and facestock
- Recyclable with battery casings
- UL Recognized for indoor use (outdoor use with overlamination)
- Thermal transfer printable using Astro Med Inc "R-5", Iimak "R2Prime", Japan Pulp & Paper "Resin 1", Sony "TR5050", Sony "TRX-50", Zebra "Z-4100" thermal transfer ribbons

Applications and Uses

This product is suitable as base stock for lead-acid vehicle battery labeling. However, it must be combined with an appropriately qualified self-wound polypropylene overlamine to pass typical end user battery acid test protocols. Also ideal for other general purpose nameplates and film label applications requiring a very aggressive adhesive. Applied labels will be resistant

to water, mild acids, bases, salts, and most petroleum-based oils, greases, and aliphatic solvents under normal vertical conditions.

Printing and Converting

Specially formulated acid-resistant inks might be required to pass end user specifications. Consult your ink manufacturer for recommendations. Testing of printed labels is recommended prior to selecting a specific ink system. This product can be diecut and stripped at moderate speeds on standard web-fed presses. Sample labels in a variety of shapes have been dispensed and applied successfully with standard labeling systems. Can be thermal transfer printed using thermal transfer ribbons listed in the UL File MH17205, however other ribbons may also be suitable. Testing is recommended prior to committing to a specific thermal ribbon.

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

FDA Compliance :

Fasson® S-6600 adhesive compositionally complies with Title 21 Code of Federal Regulations (C.F.R.) Section 175.105 ("Adhesives"). Compliance with this regulation permits the use of this adhesive in applications provided the adhesive is separated from food by a functional barrier or 1) with dry food, the quantity of the adhesive does not exceed the limits of good manufacturing practice, or 2) with fatty and aqueous foods, the quantity of the adhesive that contacts the food does not exceed the trace amount at seams and at the edge exposure between packaging laminates that may occur within the limits of good manufacturing practice.

Fasson Roll North America has not conducted any migratory, taste or odor studies to determine which packaging substrates would be considered suitable functional barriers for adhesives. It is therefore recommended that you or your customer(s) perform the appropriate tests to ensure that the components of the adhesives do not migrate to food at more than insignificant levels. Likewise, the inks and any other materials that you may be used to produce the final label product should also be considered for evaluation and analysis.

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		
	oz/in	N/100mm	oz/in	N/100mm	oz/in	N/100mm	
1. Stainless Steel	95.5	105.1	93	102.3	97.3	107	9
2. Aluminum	99.8	109.8	100.5	110.6	97.8	107.6	9
3. Polypropylene	98.4	108.2	95.4	104.9	96.6	106.3	9
4. HDPE	100.9	111	93.1	102.4	98.2	108	9
5. LDPE	91.5	100.7	91.4	100.5	58.1	63.9	8
6. ABS Plastic	93.7	103.1	92.8	102.1	96	105.6	

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	84.3	92.7	No Change
2. Tide® Detergent	69.2	76.1	No Change
3. Engine Oil (10W30)	87.4	96.1	No Change
4. Water	65.7	72.2	No Change
5. Ammonia - pH 11	88.4	97.2	No Change
6. 409® Cleaner	2.1	2.3	No Change
7. Toluene	6.6	7.3	No Change
8. Brake Fluid	153.7	169.1	No Change
9. Reference Fuel C	40.7	44.8	No Change
10. Kerosene K1	65.1	71.6	No Change
11. Heptane	68.7	75.6	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. Aluminum	-40	-40	212	100	I
2. Aluminum	-40	-40	176	80	I/O
3. Acrylic Paint	-40	-40	212	100	I
4. Acrylic Paint	-40	-40	176	80	I/O
5. Alkyd Enamel	-40	-40	212	100	I
6. Alkyd Enamel	-40	-40	176	80	I/O
7. Nylon	-40	-40	212	100	I
8. Nylon	-40	-40	176	80	I/O
9. Porcelain	-40	-40	176	80	I
10. ABS Plastic	-40	-40	176	80	I/O
11. Polyphenylene Oxide	-40	-40	176	80	I/O
12. Polystyrene	-40	-40	176	80	I/O
13. Melamine	-40	-40	176	80	I
14. Phenolic	-40	-40	176	80	I
15. Polycarbonate	-40	-40	176	80	I
16. Epoxy PCP*	-40	-40	176	80	I
17. Thermoset Polyester	-40	-40	176	80	I
18. Polypropylene			176	80	I
19. Polyethylene			176	80	I

20. Acrylic Plastic	-40	-40	212	100	I
21. *PCP=Powder Coat Paint					
22. Outdoor Requires Overlamination					

Recognized Ribbons: Astro Med Inc "R-5", limak "R2Prime", Japan Pulp & Paper "Resin 1", Sony "TR5050", Sony "TRX-50", Zebra "Z-4100"

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