

**Fasson® 3 Mil Synthetic Paper/S8001/50#SCK**
**Product Data Sheet**
**Spec#: 78401**

<b>Facestock</b>		<b>Facestock physical properties</b>				
3 Mil Matte White Synthetic Paper is a matte finished opaque white polypropylene synthetic material with the look and feel of paper and the moisture-resistance of a film. Suitable for flexographic, letterpress, screen, and thermal transfer printing.			<b>Imperial Value</b>	<b>Units</b>	<b>Metric Value</b>	<b>Units</b>
	<b>Caliper:</b> ASTM D1000		0.0030	inches	76.20	micron
	<b>Tensile:</b> ASTM D882	<b>MD</b>	15,000	psi	1,055	kg/sq cm
		<b>CD</b>	21,000	psi	1,476	kg/sq cm

<b>Adhesive</b>		<b>Adhesive physical properties</b>				
S8001 is a high performance, clear permanent emulsion acrylic pressure sensitive adhesive with balanced adhesion to a wide variety of substrates, including low surface energy plastics, engineering grade plastics, bare, coated, or painted metals, including powder coat and enamel paints. It features medium tack and excellent chemical and UV resistance for outdoor industrial applications.			<b>Imperial Value</b>	<b>Units</b>	<b>Metric Value</b>	<b>Units</b>
	<b>Type:</b>		Emulsion Acrylic			
	<b>Caliper:</b> ASTM D1000		0.0010	inches	25.40	microns
	<b>Standard Coat Wt:</b>				27	g/sq m
	<b>Minimum Appl Temp:</b>		50	F	10	C
	<b>Service Temp Range:</b>	<b>Min</b>	-40	F	-40	C
		<b>Max</b>	302	F	150	C
	<b>Loop Tack Stainless Steel: PSTC11</b>		32.0	oz/inch	35.2	N/100 mm

<b>Liner</b>		<b>Liner physical properties</b>				
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.			<b>Imperial Value</b>	<b>Units</b>	<b>Metric Value</b>	<b>Units</b>
	<b>Caliper:</b> ASTM D1000		0.0032	inches	81.2800	micron
	<b>Basis Wt: TAPPI T410</b> * (24" x 36" 500 sheets)		54.5	lbs/ream	87.2	g/sq m
	<b>Tensile:</b> ASTM D882	<b>MD</b>	48.0	lbs/inch	211.2	N/25 mm
		<b>CD</b>	26.0	lbs/inch	114.4	N/25 mm
	<b>Tear:</b> TAPPI T414	<b>MD</b>	1.8	ounces	51.1	grams
		<b>CD</b>	2.1	ounces	59.6	grams

<b>Liner Release:</b>		<b>Total Construction Caliper</b>
TMLI 90° removal of Liner from Facestock.		(approximate):
<b>Rate of Removal</b>	<b>Grams/2" Width</b>	
400 inches/min.	30	0.0072 inches (7.2 mils; 182.9 microns)

**Features and Benefits**

- An opaque matte white color with excellent hiding power
- Excellent thermal transfer and rotary press printing, die cutting, and converting.
- High moisture and grease resistance
- Up to 6 month outdoor capability by itself, 12-18 months with overlamination or surface varnish. Testing recommended.
- UL Recognized for indoor use on over 30 surfaces. Consult UL File MH17205 for details.

**Applications and Uses**

- Decals and product labels
- Nameplates
- WIP labels
- Shelf, bin, and other warehouse labels

## Printing and Converting

Can be thermal transfer printed with wax, wax/resin combination, and resin based ribbons on standard thermal transfer printing equipment. The smooth matte surface accepts most flexographic, letterpress, and screen inks. The following press inks are UL Recognized in all colors for indoor use without the need for overlamination. Water-based flexographic inks: Environmental Inks & Coatings' "DR III FR"; Flint Ink's "HydroFilm ACRE"; and Water Ink Technologies' "Versifilm Plus ULF". UV Flexographic inks: Environmental Inks & Coatings' "UltraFlex III SFR"; Flint Ink's "Flexocure Sigma"; and Water Ink Technologies' "PharmaFlex UV". Also recognized in all colors for indoor use with Jetrion 4000 Series UV ink jet inks. Other ink systems may also be suitable for use with this material. Testing is recommended prior to selecting any thermal transfer ribbon or press ink for production. Can be die cut and converted at high speeds on most roll fed rotary printing equipment. Labels in a variety of shapes and sizes have been successfully dispensed on standard pressure sensitive label dispensers.

## 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. Data was generated from 2 mil polyester facestock applied to clean laboratory panels. See Tech Bulletin "Achieving Maximum Adhesion" for specifics.

	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	33.8	37.2	58	63.9	66.9	73.6	9
2. ABS Plastic	42.3	46.5	68.9	75.8	54.7	60.1	7
3. Polypropylene	11.0	12.1	38.4	42.1	33.9	37.3	2
4. HDPE	25.5	28.1	32	35.2	31.1	34.2	3
5. LDPE	8	8.8	56	61.6	6.8	7.5	1
6. Stainless Steel	35.2	38.7	60.4	66.5	42.9	47.2	5

## 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	46.2	50.8	No change	
2. Tide® Detergent	40.1	44.1	No change	
3. Engine Oil (10W30)	51.2	56.4	No change	
4. Water	19	20.9	No change	

5. Ammonia - pH 11	44.8	49.3	No change	
6. 409® Cleaner	49.2	54.1	No change	
7. Toluene	21.7	23.9	No change	
8. Brake Fluid	46.4	51	No change	
9. Reference Fuel C	39.4	43.3	No change	
10. K1 Kerosene	45.7	50.2	No change	
11. Heptane	39.6	43.5	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. Acrylic Paint	-40	-40	176	80	I
2. Acrylic Plastic	-40	-40	140	60	I
3. Acrylic PCP*	-40	-40	176	80	I
4. ABS Plastic	-40	-40	176	80	I
5. Alkyd Enamel	-40	-40	176	80	I
6. Aluminum	-40	-40	176	80	I
7. EVA	-40	-40	140	60	I
8. Epoxy Paint	-40	-40	176	80	I
9. Epoxy PCP*	-40	-40	176	80	I
10. Galvanized Steel	-40	-40	176	80	I
11. Glass	-40	-40	176	80	I
12. Melamine	-40	-40	176	80	I
13. Nylon	-40	-40	176	80	I
14. Phenolic	-40	-40	176	80	I
15. PBT Plastic	-40	-40	176	80	I
16. Polycarbonate	-40	-40	176	80	I
17. Polyester Paint	-40	-40	176	80	I
18. Polyester PCP*	-40	-40	176	80	I
19. Polyethylene	-40	-40	176	80	I

20. PET Plastic	-40	-40	176	80	I
21. Polyphenylene Oxide	-40	-40	176	80	I
22. Polypropylene	-40	-40	176	80	I
23. Polystyrene	-40	-40	176	80	I
24. Polyurethane Paint	-40	-40	176	80	I
25. PVF	-40	-40	176	80	I
26. Porcelain	-40	-40	176	80	I
27. Stainless Steel	-40	-40	176	80	I
28. Poly (Urethane) PCP*	-40	-40	176	80	I
29. Unsat Thermoset Polyester	-40	-40	176	80	I
30. *PCP=Powder Coat Paint					
31. and others					

**Recognized Ribbons:** Armor "AXR7+", DNP "R-510", limak "SP-330", ITW "B324", Ricoh "B110C"

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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 [www.na.fasson.com](http://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.

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#### Label and Packaging Materials -North America

8080 Norton Parkway  
Mentor, OH 44060  
800-944-8511

