

## 4 Mil White Flexible Vinyl TC/S730/50#SCK ABC

Product Data Sheet  
Spec#: 40087

Facestock		Facestock physical properties							
4 mil white flexible top coated vinyl with good tear strength and weather resistance, but relatively low heat resistance. The 7100 topcoat enhances solvent and some water based flexographic printing. This product is not recommended for UV printing.			Imperial Value		Units		Metric Value		Units
		Caliper: ASTM D1000		0.0034		inches		86.36	micron
		Tensile: ASTM D882	MD	3,500		PSI		246	kg/sq cm
			CD	3,000		PSI		211	kg/sq cm

Adhesive		Adhesive physical properties								
S730 is a clear solvent acrylic permanent adhesive for general purpose industrial applications. Features good initial tack and ultimate adhesion to a wide variety of substrates including medium to low surface energy plastics, and high shear for minimal cold flow or ooze characteristics.			Imperial Value		Units		Metric Value		Units	
	Type:		Solvent Acrylic							
	Caliper: ASTM D1000		0.0009		inches		22.86		micron	
	Standard Coat Wt:						27		g/sq m	
	Minimum Appl Temp:		50		F		10		C	
	Service Temp		Min	-40		F		-40		C
	Range:		Max	300		F		149		C
	Loop Tack Stainless Steel: PSTC11		59.2		oz/inch		65.1		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	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:		Total Construction Caliper	
TMLI 90° removal of Liner from Facestock.		(approximate):	
Rate of Removal	Grams/2" Width		
400 inches/min.	55	0.0075 inches (7.5 mils; 190.5 microns)	

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### Features and Benefits

- Opaque white facestock with excellent hiding power
- Topcoated for water-based or solvent flexo printing
- Robust general purpose permanent acrylic adhesive
- UL Recognized (see file MH8212 for specific recognized conditions)

### Applications and Uses

This product will provide satisfactory outdoor durability and water resistance for two years under normal vertical exposure conditions.

Can be used for general nameplates, drum labels, point-of-purchase, graphic displays. This construction complies with CONEG

heavy metal content regulations

### Printing and Converting

The topcoat allows for printing by water-based or solvent flexography without the need for specially formulated inks. Testing is recommended prior to ink selection. Nominal facestock shrinkage due to plasticizer evaporation is 5%. Some adhesive halo or ooze on roll edges is normal for this construction. This product can be diecut and stripped at high speeds on standard web-fed presses. Labels of various sizes and shapes have been successfully dispensed at moderate speeds on pressure-sensitive roll label applicators.

### 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 <sup>0</sup> F		96 Hours at 150 <sup>0</sup> F (65 <sup>0</sup> C) & 80% Relative Humidity	
Surface	oz/in	N/100mm	oz/in	N/100mm	oz/in	N/100mm	oz/in	N/100mm
1. Aluminum	77.1	84.8	70.2	77.2	86.2	94.8	112.6	123.9
2. Stainless Steel	67.7	74.5	84.8	93.3	90	99	124.3	136.7
3. ABS Plastic	58.9	64.8	77.8	85.6	73.3	80.6	54.6	60.1
4. Polypropylene	24	26.4	0	0	11	12.1	1	1.1
5. HDPE	11.7	12.9	4.4	4.8	11	12.1	20.5	22.6
6. LDPE	11	12.1	13.2	14.5	8.8	9.7	1.4	1.5

## 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	Edge
Chemical	oz/in	N/100mm	Appearance	Penetration mm
1. 70% IPA	81.5	89.7	No Change	0
2. Tide® Detergent	72.5	79.8	No Change	0
3. Engine Oil (10W30)	76.8	84.5	No Change	0
4. Water	36.7	40.4	No Change	0
5. Ammonia - pH 11	29.6	32.6	No Change	0
6. 409® Cleaner	38.7	42.6	No Change	3.1
7. Toluene	33.7	37.1	No Change	6.4
8. Brake Fluid	79.4	87.3	No Change	0
9. Reference Fuel C	50.72	55.8	No Change	3.3
10. Kerosene K1	69	75.9	No Change	3.1
11. Heptane	60.7	66.8	No Change	0

## Compliance Recognition: UL



Underwriters Laboratories, Inc.



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Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor Only I/O=Indoor & Outdoor)
	°F	°C	°F	°C	
1. Aluminum	-40	-40	176	80	I
2. Galvanized Steel	-20	-29	176	80	I
3. Stainless Steel	-20	-29	176	80	I
4. Alkyd Enamel	-40	-40	176	80	I
5. ABS Plastic	-40	-40	176	80	I
6. Epoxy Paint	-40	-40	140	60	I
7. Unsat Thermoset Polyester	-40	-40	140	60	I
8. Nylon	-40	-40	140	60	I
9. Polycarbonate	-40	-40	104	40	I
10. Polyphenylene Oxide	-40	-40	104	40	I

**Recognized Ribbons:** Not designed for thermal transfer printing.

409® is a registered trademark of the Clorox Company

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.



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#### Warranty

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