

## 1 Mil Clear Polyester TC/S730/1 Mil Polyester

Facestock	Facestock physical properties					
1 Mil Clear Topcoated Polyester is a highly transparent overlaminating 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
	<b>Caliper:</b> ASTM D1000		0.0010	inches	25.40	micron
	<b>Tensile:</b> ASTM D882	<b>MD</b>	32,700	psi	2,299	kg/sq cm
		<b>CD</b>	38,400	psi	2,700	kg/sq cm

Adhesive	Adhesive physical properties					
S730 is a clear solvent acrylic overlaminating adhesive for general purpose industrial applications. Features good clarity and minimal cold flow or ooze characteristics.			Imperial Value	Units	Metric Value	Units
	<b>Type:</b>		Solvent Acrylic			
	<b>Caliper:</b> ASTM D1000		0.0006	inches	15.24	microns
	<b>Standard Coat Wt:</b>				19	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>	300	F	149	C
	<b>Loop Tack Stainless Steel: PSTC11</b>		59.2	oz/inch	65.1	n/100 mm

Liner	Liner physical properties					
1 mil clear polyester liner suitable for high speed diecutting and stripping applications.			Imperial Value	Units	Metric Value	Units
	<b>Caliper:</b> ASTM D1000		0.0011	inch	26.9240	micron
	<b>Basis Wt:</b> TAPPI T410 * (24" x 36" 500 sheets)					g/sq m
	<b>Tensile:</b> ASTM D882	<b>MD</b>	35,000.0	PSI	3,500.0	kg/sq cm
		<b>CD</b>	35,000.0	PSI	3,500.0	kg/sq cm
	<b>Tear:</b> TAPPI T414	<b>MD</b>				
<b>CD</b>						

Liner Release:		Total Construction Caliper
TMLI 90° removal of Liner from Facestock.		(approximate):
Rate of Removal	Grams/2" Width	0.00282 inches (2.8 mils; 71.6 microns)
400 inches/min.	30	

### Features and Benefits

- Crystal clear facestock for unobstructed view of printing underneath
- Top coated facestock to enhance thermal transfer printing.
- Smooth polyester liner imparts a smooth adhesive coat for faster wet out and clear view of printed label surface.
- UL and c-UL recognized for overlamination and thermal transfer printing. See UL files MH8212 and MH17205 for specific recognized conditions.

### Applications and Uses

Designed for overlamination of polyester or vinyl label materials to protect press printing from abrasion or chemical exposures. Can also be added on top of other materials to make them thermal transfer printable. Can be used on bright metallic backgrounds or large dark flood coated surfaces.

### Printing and Converting

Can be thermal transfer printed with a number of select resin or resin/wax ribbons. See Fasson Thermal Transfer Ribbon Compatibility Matrix or UL file.

### 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 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.

**Note:** 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		9
	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	1
2. Stainless Steel	67.7	74.5	84.8	93.3	90	99	1
3. ABS Plastic	58.9	64.8	77.8	85.6	73.3	80.6	5
4. Polypropylene	24	26.4	0	0	11	12.1	
5. HDPE	11.7	12.9	4.4	4.8	11	12.1	2
6. LDPE	11	12.1	13.2	14.5	8.8	9.7	

### 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	81.5	89.7	No Change	
2. Tide® Detergent	72.5	79.8	No Change	
3. Engine Oil (10W30)	76.8	84.5	No Change	
4. Water	36.7	40.4	No Change	
5. Ammonia - pH 11	29.6	32.6	No Change	
6. 409® Cleaner	38.7	42.6	No Change	
7. Toluene	33.7	37.1	No Change	
8. Brake Fluid	79.4	87.3	No Change	
9. Reference Fuel C	50.72	55.8	No Change	
10. Kerosene K1	69	75.9	No Change	
11. Heptane	60.7	66.8	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. on PET Labels	-40	-40	257	125	I/O
2. on PVC Labels	-40	-40	140	60	I/O

**Recognized Ribbons:**

Armor "AXR7+", Armor "AXR8", Armor "AXR600", Astro Med Inc "R-5", Astro Med "RY", Coding Prds "5940", Dai Nippon "R-300", Dai Nippon "R-510", Iimak "SP-410", Iimak "SP-330", ITW "B324", Japan Pulp & Paper "Resin 1", Japan Pulp & Paper "Sigma P", Kurz "K300", Kurz "K500", Mid City Columbia "CGL-80HE", Mid City Columbia "MCC-23HE", NCR "Perma Max", NCR "K3", Ricoh "B110C", Ricoh "B110CX", Ricoh "B110CR", Ricoh "120EC", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR5070", Sony "TR6070", Sony "TR6075", Sony "TRX75", Sony "Signature Series Resin", Union Chemical "US150", Union Chemical "US300", Zebra "5095", Zebra "5100", Zebra "Z-4100", and others.



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Substrates	Minimum Temperature		Maximum Temperature		(I=Indoor Only I & Outdoor
	°F	°C	°F	°C	
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**Recognized Ribbons:**

Armor "AXR7+", Armor "AXR8", Armor "AXR600", Astro Med "RY", Coding Prds "5940", Dai Nippon "R-300", Dai Nippon "R-510", Japan Pulp & Paper "Resin 1", Kurz "K500", Mid City Columbia "CGL-80HE", Mid City Columbia "MCC-23HE", NCR "Promark 3", Ricoh "B110C", Ricoh "B110CR", Sato Corp. "Premier 1", Sony "TR4070", Sony "TR5070", Sony "TR6070", Sony "TRX75", Sony "Signature Series Resin", Union Chemical "US300", Zebra "5100", and others.

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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.

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