

Technical Data Sheet

Laser/Inkjet Printable Polyester Film

This specification is intended to outline the physical and chemical properties of *PANDUIT*'s pressure sensitive laser and inkjet printable polyester material and include the following part numbers and printable material identifiers:

Part Number Prefixes		
LJSL*Y		
PLL		

Printable Material Suffixes		
Y*J		

PRODUCT SPECIFICATIONS:

Description:	Material is RoHS compliant (European Union directive 2002/95/EC). Material is top coated to provide a laser/inkjet printable surface. This material is halogen free.
Print Methods:	This material is recommended for laser and inkjet printing.
Adhesive:	Acrylic based, pressure sensitive permanent adhesive.
Standard Colors:	Clear with colored print-on area
Thickness:	2.0 +/- 0.3 mils (substrate and adhesive)
Service Temperature Range:	-65°F to 225°F (-54°C to 107°C)
Minimum Application Temperature:	50°F (10°C)
Storage Conditions:	Store at 70°F (21°C) and 50% Relative Humidity.

PROPERTIES:**PERFORMANCE:**

Peel Adhesion to Stainless Steel:	35 oz/in width (PSTC-101, 15 min. dwell)										
Shear Adhesion:	24+ hours (PSTC-107, Procedure A)										
Tensile Strength:	MD 56lbs/ inch width +/- 15% (ASTM D882) TD 72 lbs/inch width +/- 15% (ASTM D882)										
Elongation:	MD 160% +/- 15% (ASTM D882) TD 120% +/- 15% (ASTM D882)										
Elevated Temperature Exposure:	After 8 hours at 275°F (135°C) there was no deterioration of the substrate										
Tack:	470 g/cm ² (ASTM D-2979-71, 1 sec dwell)										
Immersion Resistance:	Printed samples were applied to stainless steel panels and immersed in "Isopar 'L' and Isopar 'M' solutions to determine if the printing would smear or if the adhesive would degrade.										
	<table> <thead> <tr> <th>Immersion Time</th> <th>Visual Changes</th> </tr> </thead> <tbody> <tr> <td>10 minutes</td> <td>None</td> </tr> <tr> <td>30 minutes</td> <td>None</td> </tr> <tr> <td>60 minutes</td> <td>None</td> </tr> <tr> <td>24 hours</td> <td>None</td> </tr> </tbody> </table>	Immersion Time	Visual Changes	10 minutes	None	30 minutes	None	60 minutes	None	24 hours	None
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UV Resistance:

*3000 hours no change observed (ASTM G154)

*3000 hours equates to 5 years of assimilated

Outdoor UV exposure.

Technical Data Sheet**CHEMICAL/SOLVENT RESISTANCE:**

Samples were laser and inkjet printed. These samples were laminated to flat steel panels and were also wrapped around a 1/12" OD wire. The test was conducted at room temperature after 24 hour dwell. The samples were then immersed in the specified reagents for 5 immersions using the following cycle: a 10 minute immersion time followed by a 30 minute recovery time. After the fifth immersion, the samples were conditioned for 24 hours before testing. Percent retention of performance for samples on flat steel panels was based on a 48 hour adhesion value of 50 oz/inch width.

Chemical Reagent	Visual Observation	Print		Percent Retention of Performance
		Laser	Inkjet	
Distilled Water	No effect	No effect	No effect	98%
Mineral Spirits	No effect	No effect	No effect	96%
Toluene	Slight adhesive bleed	No effect	No effect	91%
Isopropyl alcohol	No effect	No effect	No effect	96%
Methanol	No effect	No effect	No effect	91%
Acetone	Slight adhesive bleed	No effect	No effect	87%
Methyl Ethyl Ketone	Slight adhesive bleed	No effect	No effect	87%
1,1,1 Trichloroethane	No effect	No effect	No effect	94%
Freon TF	No effect	No effect	No effect	87%
Super Agitene	No effect	No effect	No effect	90%
Jet A Fuel	No effect	No effect	No effect	90%
Arco Truslide 68	No effect	No effect	No effect	89%
SAE 30 Motor Oil	No effect	No effect	No effect	102%
10% Nitric Acid	No effect	No effect	No effect	92%

PSTC: Pressure Sensitive Tape Council (U.S.A.)
ASTM: American Society for Testing and Materials (U.S.A.)

Approval

UL Recognized: UL969

File Number: MH14979 (for material suffix YAJ only)

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