

Technical Data Sheet

Laser Printable White Polyester Film

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

Part Number Prefixes		
PLL-*-Y2	PEL-*-Y2	

PRODUCT SPECIFICATIONS:

Description:	Material is RoHS compliant (European Union directive 2002/95/EC). Material is top coated to provide a laser printable surface. This material is halogen free.
Print Methods:	This material is recommended for laser printing.
Adhesive:	Acrylic based, pressure sensitive permanent adhesive.
Standard Colors:	White
Thickness:	2.5 +/- 0.5 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 28 +/- 2.8 lbs./inch width (PSTC-131) TD 35 +/- 3.5 lbs./inch width (PSTC-131)										
Elongation:	MD 110% +/- 15% (PSTC-131) TD 75% +/- 15% (PSTC-131)										
UV Resistance:	*3000 hours no change observed (ASTM G154)										
Elevated Temperature Exposure:	After 8 hours at 225°F (107°C) there was no deterioration of the substrate										
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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*3000 hours equates to 5 years of assimilated outdoor UV exposure.

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

Test performed according to PSTC-101, ASTM D-543-87, and ASTM D-896-90.

The testing was conducted at room temperature and performed with reference to the above test methods. The samples were cut 1" wide, applied to stainless steel panels, and conditioned for 24 hours. 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 was based on a 48 hour adhesion value of 56 oz/inch.

Chemical Reagent	Visual Observation	Percent Retention of Performance
Distilled Water	No effect	94%
Mineral Spirits	No effect	97%
Toluene	Slight adhesive bleed, coating slightly dissolved	86%
Isopropyl Alcohol	Slight adhesive bleed	94%
Methanol	No effect	94%
Acetone	Slight adhesive bleed	89%
Methyl Ethyl Ketone	Adhesive bleed	80%
1,1,1 Trichloroethane	Slight adhesive bleed	97%
Freon TF	No effect	91%
Super Agitene	No effect	97%
Jet-A Fuel	No effect	94%
Arco TruSlide 68	No effect	103%
SAE 30 Motor Oil	No effect	94%
Hexane	No effect	100%

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

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