

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/inkjet printable polyester material and include the following part numbers and printable material identifiers:

Part Number Prefixes		
JL*Y		

Printable Material Suffixes		
YJJ		
YLJ		

PRODUCT SPECIFICATIONS:

Description:	Material is RoHS compliant (European Union directive 2002/95/EC). Material is a top coated polyester film with a pressure sensitive adhesive. This material is halogen free.
Print Methods:	This material is recommended for inkjet and laser printing.
Adhesive:	Acrylic based, pressure sensitive permanent adhesive.
Standard Colors:	White, Yellow
Thickness:	3.5 +/- 0.4 mils (substrate and adhesive)
Service Temperature Range:	-40°F to 311°F (-40°C to 154°C)
Minimum Application Temperature:	40°F (4.4°C)
Storage Conditions:	Store at 70°F (21°C) and 50% Relative Humidity.

PROPERTIES:**PERFORMANCE:**

Peel Adhesion to Stainless Steel:	45 oz/in width (PSTC-101, 15 min. dwell)
Shear Adhesion:	24+ hours (PSTC-107, Procedure A)
Tensile Strength:	MD 36 +/- 3.6 lbs./inch width (PSTC-131) TD 41 +/- 4.1 lbs./inch width (PSTC-131)
Elongation:	MD 80% +/- 15% (PSTC-131) TD 75% +/- 15% (PSTC-131)
UV Resistance:	*3000 hours no change observed (ASTM G154)
Elevated Temperature Exposure:	After 8 hours at 150°F (65.5°C) there was no deterioration of the substrate
Tack:	470 g/cm ² (ASTM D-2979-71)

*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. Before testing, the samples were inkjet printed and laser printed. The samples were cut 1" wide and were 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 74 oz/inch width.

Chemical Reagent	Visual Observation	Print		Percent Retention of Performance
		Inkjet	Laser	
Distilled Water	No effect	No effect	No effect	98%
Mineral Spirits	No effect	No effect	No effect	96%
Toluene	Slight adhesive bleed	No effect	Loss of print legibility	91%
Isopropyl alcohol	No effect	No effect	No effect	96%
Methanol	No effect	No effect	No effect	91%
CRC Degreaser	No effect	No effect	No effect	92%
QD Contact Cleaner	No effect	No effect	No effect	95%
CRC Silicone	No effect	No effect	No effect	94%
Hydraulic fluid fire resistant	No effect	No effect	No effect	95%
Acetone	Slight adhesive bleed	Loss of print legibility	Loss of print legibility	87%
Methyl Ethyl Ketone	Slight adhesive bleed	Loss of print legibility	Loss of print legibility	87%
1,1,1 Trichloroethane	No effect	No effect	Loss of print legibility	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%

PSTC: Pressure Sensitive Tape Council

ASTM: American Society for Testing and Materials (U.S.A.)

Approvals:

UL Recognized: UL 969

File Number: MH 14979

CUL Recognized: C22.2 No. 0.15-01

File Number: MH 14979

LIMITED WARRANTY

All *PANDUIT* Identification Solution Products (except for Software programs) are warranted to be free from defects in material and workmanship at the time of sale but our obligation under this warranty is limited to replacement of the product proved to be defective within 6 months from the date of sale, or in the case of printers, within 90 days from the date of sale. This warranty is void if the products or printers are modified, altered or misused in any way. Use of *PANDUIT* printers with any product other than the specified *PANDUIT* products for which the printer was designed constitutes misuse. Before using, the user shall determine the suitability of the product for its intended use and user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be altered except by an agreement signed by officers or seller and manufacturer.

NEITHER *PANDUIT* OR SELLER SHALL BE LIABLE FOR ANY OTHER INJURY, LOSS OR DAMAGE, WHETHER DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR THE INABILITY TO USE THE PRODUCT OR THE PRINTER.

THIS WARRANTY IS MADE IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS OF PARTICULAR USE ARE SPECIFICALLY EXCLUDED.

The information contained in this literature is based on our experience to date and is believed to be reliable. It is intended as a guide or use by persons having technical skill at their own discretion and risk. We do not guarantee favorable results or assume any liability in connection with its use. Dimensions contained herein are for reference purposes only. This publication is not to be taken as a license to operate under, or a recommendation to infringe any existing patents. This supersedes and voids all previous literature, etc.