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PANDUIT®
18900 Panduit Drive
Tinley Park, IL 60487
Customer Service: 800-777-3300

TDS: GMY5
Effective Date: 12Jan23
Revision: 4

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.

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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	Substrate/Adhesive	Print Legend	
		Inkjet	Laser
Distilled Water	No effect	No effect	No effect
Mineral Spirits	Slight adhesive bleed	No effect	No effect
Toluene	Slight adhesive bleed	No effect	No effect
Isopropyl alcohol	No effect	No effect	No effect
Methanol	No effect	No effect	No effect
CRC Degreaser	Slight adhesive bleed	No effect	No effect
QD Contact Cleaner	No effect	No effect	No effect
CRC Silicone	No effect	No effect	No effect
Hydraulic fluid fire resistant	Adhesive bleed	No effect	No effect
Acetone	Slight adhesive bleed	No effect	No effect
Methyl Ethyl Ketone	No effect	No effect	No effect
Super Agitene	No effect	No effect	No effect
Jet A Fuel	No effect	No effect	No effect
SAE 30 Motor Oil	No effect	No effect	No effect

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

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