

**Technical Data Sheet****White Polyvinylfluoride Film**

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

Part Number Prefixes		
PDL		

Printable Material Suffixes		
TJJ		
TJD		

**PRODUCT SPECIFICATIONS:**

Description:	Material is RoHS compliant (European Union directive 2002/95/EC). Material is a self-extinguishing top coated polyvinylfluoride film with a pressure sensitive adhesive.
Print Methods:	This material is recommended for dot matrix, laser and inkjet printing.
Adhesive:	Acrylic based pressure sensitive permanent adhesive
Standard Colors:	White
Thickness:	2.5 +/- 0.5 mils (substrate and adhesive)
Service Temperature Range:	-40°F to 275°F (-40°C to 135°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: <i>REV</i>	35 oz/in width (PSTC-101, 15 min. dwell)
Shear Adhesion:	20 hours (PSTC-107, Procedure A)
Tensile Strength:	MD 12 +/- 1.2 lbs./inch width (PSTC-131)
Elongation:	MD 150% +/- 20% (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:	460 g/cm <sup>2</sup> (ASTM D-2979-71, 1 sec dwell)

\*3000 hours equates to 5 years of assimilated outdoor UV exposure.

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

Samples were dot matrix printed with Panduit PDLR ribbon, laser and inkjet printed. These samples were cut 1" wide and were applied to stainless steel panels and conditioned for 24 hours. Test was conducted at room temperature. The samples were immersed in the specified chemical 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 83 oz/inch width.

Chemical Reagent	Visual Observation			
	Substrate / Adhesive	Dot Matrix Printed Legend	Laser Printed Legend	Inkjet Printed Legend
Distilled Water	No effect	No effect	No effect	No effect
Mineral Spirits	No effect	No effect	No effect	No effect
Toluene	Slight adhesive bleed	No effect	Loss in print density	No effect
Isopropyl Alcohol	Slight adhesive bleed	No effect	No effect	No effect
Methanol	No effect	No effect	No effect	No effect
Acetone	Slight adhesive bleed	No effect	No effect	No effect
Methyl Ethyl Ketone	Slight adhesive bleed	No effect	No effect	No effect
Super Agitene	No effect	No effect	No effect	No effect
Jet-A Fuel	No effect	No effect	No effect	No effect
SAE 30 Motor Oil	No effect	No effect	No effect	No effect

**APPROVALS**

UL Recognized: UL969

File number: MH 14576

CUL Recognized: C22.2 No 0.15-01

File number: MH 14576

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