

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 ² (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	Percent Retention of Performance
Distilled Water	No effect	No effect	No effect	No effect	94%
Mineral Spirits	No effect	No effect	No effect	No effect	90%
Toluene	Slight adhesive bleed	Loss in print density	Loss in print density	No effect	83%
Isopropyl Alcohol	No effect	No effect	No effect	No effect	87%
Methanol	No effect	No effect	No effect	No effect	92%
Acetone	Slight adhesive bleed	Loss in print density	No effect	No effect	85%
Methyl Ethyl Ketone	Slight adhesive bleed	Loss in print density	Slight print smear	No effect	85%
1,1,1 Trichloroethane	No effect	No effect	No effect	No effect	92%
Freon TF	No effect	No effect	No effect	No effect	100%
Super Agitene	No effect	No effect	No effect	No effect	92%
Jet-A Fuel	No effect	No effect	No effect	No effect	90%
Arco TruSlide 68	No effect	No effect	No effect	No effect	96%
SAE 30 Motor Oil	No effect	No effect	No effect	No effect	94%

APPROVALS

UL Recognized: UL969

File number: MH 14576

CUL Recognized: C22.2 No 0.15-01

File number: MH 14576

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