

18900 Panduit Drive Tinley Park, IL 60487

Customer Service: 800-777-3300

TDS: Effective Date: Revision:

GMT1 20MAR19

Self-Laminating Clear Polyvinylfluoride Film

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

Part Number Prefixes				
TTSL	PDL			

Printable Material Suffixes					
TAT-A	TAD-A	TAJ-A			

PRODUCT SPECIFICATIONS:

Description: Material is RoHS compliant (European Union directive 2011/65/EU).

Material is a self-extinguishing top coated polyvinylfluoride film with a

pressure sensitive adhesive. This material is used in a self-laminating format

for wire/cable marking.

Print Methods: This material is recommended for dot matrix, thermal transfer, laser and

inkjet printing.

Adhesive: Acrylic based, pressure sensitive permanent adhesive

Standard Colors: Clear film with white print-on area

Thickness: 1.9 +/- 0.3 mils (substrate and adhesive)

-65°F to 275°F (-53.9°C to 135°C) Service Temperature Range:

50°F (10°C) Minimum Application Temperature:

Storage Conditions: Store at 70°F (21°C) and 50% Relative Humidity.

PROPERTIES: **PERFORMANCE:**

Peel Adhesion to Stainless Steel: 30 oz/in width (PSTC-101, 15 min. dwell)

40 oz/in width (PSTC-101, 72 hrs dwell)

20 hours (PSTC-107, Procedure A) Shear Adhesion:

Tensile Strength: MD 18 +/- 1.8 lbs./inch width (PSTC-131)

TD 28 +/- 2.8 lbs./inch width (PSTC-131)

MD 110% +/- 10% (PSTC-131) Elongation:

TD 90% +/- 10% (PSTC-131)

UV Resistance: *3000 hours no change observed (ASTM G154)

After 8 hours at 225°F (107°C) there was no deterioration of the substrate Elevated Temperature Exposure:

Tack: 460 g/cm² (ASTM D-2979-71, 1 sec dwell)

Page 1 of 2 © 2005 PANDUIT Corp

TDS: GMT1

^{*3000} hours equates to 5 years of assimilated outdoor UV exposure.



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Technical Data Sheet

CHEMICAL/SOLVENT RESISTANCE:

Samples were dot matrix printed with Panduit dot matrix ribbon, thermal transfer printed with RMH*BL/RMEH*BL ribbons, laser and inkjet printed. These samples were wrapped around a 1/12" OD wire in self-laminating format. Test was conducted at room temperature after 24 hour dwell. 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.

	Visual Observation						
Chemical Reagent	Substrate / Adhesive	Dot Matrix Printed Legend	Thermal Transfer Printed Legend	Laser Printed Legend	Inkjet Printed Legend		
Distilled Water	No effect	No effect	No effect	No effect	No effect		
Mineral Spirits	No effect	No effect	No effect	No effect	No effect		
ASTM #3 Oil	No effect	No effect	No effect	No effect	No effect		
Isopropyl Alcohol	No effect	No effect	No effect	No effect	No effect		
Methanol	Adhesive bleed	No effect	No effect	No effect	No effect		
3% Alconox Detergent	Slight adhesive bleed	No effect	No effect	No effect	No effect		
10% Sodium Hydroxide Solution	Adhesive bleed	No effect	No effect	No effect	No effect		
10% Sulfuric Acid Solution	No effect	No effect	No effect	No effect	No effect		
5% Sodium Chloride Solution	No effect	No effect	No effect	No effect	No effect		
Freon TF	No effect	No effect	No effect	No effect	No effect		
Super Agitene	No effect	No effect	No effect	No effect	No effect		
Jet-A Fuel	No effect	No effect	No effect	No effect	No effect		
Arco TruSlide 68	No effect	No effect	No effect	No effect	No effect		
SAE 30 Motor Oil	No effect	No effect	No effect	No effect	No effect		
Blasogrind HC 5	No effect	No effect	No effect	No effect	No effect		

Approvals

UL Recognized: UL969 File Number: MH14979 (TTSL, PDL, TAT-A, TAD-A TAJ-A)

CUL Recognized: C22.2 No. 0.15-15 File Number: MH14979 (PDL, TAD-A)

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