

18900 Panduit drive Tinley Park, IL 60877

Customer Service: 800-777-3300

TDS: Effective Date: Revision:

GMVF 17Jul12 3

# **Self-Laminating Clear Polyolefin Film**

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

Part Number Prefixes				
PDL-*VF				

Printable Material Suffixes				
FAD				

## PRODUCT SPECIFICATIONS:

Description: Material is RoHS compliant (European Union directive 2002/95/EC).

Material is a corona treated, flexible, matte clear polyolefin film with a pressure sensitive adhesive. This material is used in a self-laminating

format for wire/cable marking. This material is halogen free.

Print Methods: This material is recommended for dot matrix printing only.

Adhesive: Acrylic based, pressure sensitive permanent adhesive.

Standard Colors: Transparent (matte)

Thickness:  $4.4 \pm 0.5$  mils (substrate and adhesive)

Service Temperature Range: -40°F to 176°F (-40°C to 80°C)

Minimum Application Temperature: -10°F (-12.2°C)

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

# PROPERTIES: PERFORMANCE:

Peel Adhesion to Stainless Steel: 24 oz/in width (PSTC-101, 15 min. dwell)

Shear Adhesion: 3 hours (PSTC-107, 1 hour dwell)

Tensile Strength: MD 15 +/- 1.5 lbs./inch width (PSTC-131)

TD 14 +/- 1.4 lbs./inch width (PSTC-131)

Elongation: MD 150% +/- 30% (PSTC-131)

TD 250% +/- 50% (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

Modulus of Elasticity: MD: 150,000 +/- 40,000 psi

TD: 55,000 +/- 20,000 psi

Loop Tack: 2.8 lb/in width

Page 1 of 2 © 2005 PANDUIT Corp

TDS: GMVF

<sup>\*3000</sup> hours equates to years of assimilated outdoor UV exposure.



**Technical Data Sheet** 

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### CHEMICAL/SOLVENT RESISTANCE:

Samples were dot matrix printed with Panduit PDLR ribbon. 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
Distilled Water	No effect	No effect
Mineral Spirits	Slight adhesive bleed	No effect
Toluene	Slight adhesive bleed	No effect
Isopropyl Alcohol	No effect	No effect
Methanol	No effect	No effect
Acetone	No effect	No effect
Methyl Ethyl Ketone	Slight adhesive bleed	No effect
1,1,1 Trichloroethane	Slight adhesive bleed	No effect
Freon TF	Slight adhesive bleed	No effect
Super Agitene	No effect	No effect
Jet-A Fuel	Slight adhesive bleed	No effect
Arco TruSlide 68	No effect	No effect
SAE 30 Motor Oil	No effect	No effect

## **APPROVALS**

UL Recognized: UL969 File number: MH 14979

### **LIMITED WARRANTY**

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Page 2 of 2 © 2005 PANDUIT Corp

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