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

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Self-Laminating Translucent Vinyl Film

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

Part Number Prefixes		
PLMA*-Y	PSM-*-Y	PDL*
PSCB-*-Y	PSWM-*-Y	TWS
PSCC-*-Y	PSWMH-*-Y	PLD-1,2
JSL*	LWS	PLDR-1,2

Printable Material Suffixes		
VA3Y	VARY	
VA6Y		
VADY		
VAFY		

PRODUCT SPECIFICATIONS:

Description:	Material is RoHS compliant (European Union directive 2002/95/EC). Material is a top coated vinyl 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, ink jet and thermal transfer printing.
Adhesive:	Acrylic based, pressure sensitive high tack adhesive.
Standard Colors:	Translucent film with colored print-on area
Thickness:	4.25 +/- 0.45 mils (substrate and adhesive)
Service Temperature Range:	-40°F to 150°F (-40°C to 66°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:	32 oz/in width (PSTC-101, 15 min. dwell) 45 oz/in width (PSTC-101, 24 hrs dwell)
Shear Adhesion:	24+ hours (PSTC-107, Procedure A)
Tensile Strength:	MD 12.2 +/- 1.5 lbs./inch width minimum (PSTC-131) 3200 PSI minimum (ASTM D882)
Elongation:	MD 150% minimum (PSTC-131) 150% minimum (ASTM D882)
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
Dielectric Strength:	1,900 Volts/Mil (ASTM D-149-97, Method A)

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

CHEMICAL/SOLVENT RESISTANCE:

Samples were preprinted, dot matrix printed with Panduit PDLR ribbon, thermal transfer printed with RMH*BL/RMEH*BL ribbon 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.

Chemical Reagent	Visual Observation				
	Substrate / Adhesive	**Pre-Printed Printed Legend**	**Dot Matrix Printed Legend**	**Thermal Transfer Printed Legend**	**Ink Jet Printed Legend**
Distilled Water	No effect	No effect	No effect	No effect	No effect
Mineral Spirits	Slight adhesive bleed	No effect	No effect	No effect	No effect
ASTM #3 Oil	Slight adhesive bleed	No effect	No effect	No effect	No effect
Isopropyl Alcohol	No effect	No effect	No effect	No effect	No effect
Methanol	No effect	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	No effect	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	Slight adhesive bleed	No effect	No effect	No effect	No effect
Jet-A Fuel	Slight adhesive bleed	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

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