

**Technical Data Sheet****Turn Tell Label**

This specification is intended to outline the physical and chemical properties of *PANDUIT*'s pressure sensitive self-laminating clear polymer label that can be rotated and repositioned after installation and include the following part numbers and printable material identifiers:

Part Number Prefixes		

Printable Material Suffixes		
V1M		

**PRODUCT SPECIFICATIONS:**

Description:	Material is RoHS compliant (European Union directive 2002/95/EC). Material is a top coated polymer film with a pressure sensitive adhesive and is used in a self-laminating format for wire/cable marking.
Print Methods:	This material is recommended for thermal transfer printing.
Adhesive:	Acrylic based, pressure sensitive adhesive.
Standard Colors:	Clear film with white print-on area
Thickness:	4.5 +/- 0.5 mils (substrate and adhesive)
Service Temperature Range:	-40°F to 150°F (-40°C to 65.6°C)
Minimum Application Temperature:	50°F (10°C)
Storage Conditions:	Store at 70°F (21°C) and 50% Relative Humidity. These cassettes should not be stored in direct sunlight, or temperatures exceeding 95°F.

**PROPERTIES:****PERFORMANCE:**

Peel Adhesion to Stainless Steel:	32 oz/in width minimum (PSTC-101, 15 min. dwell)
Shear Adhesion:	3 hours minimum (PSTC-107, Procedure A)
Tensile Strength:	MD 55 +/- 5.5 lbs./inch width (PSTC-131)
Elongation:	MD 110% +/- 10% (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

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

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

Samples were thermal transfer printed on MP100/MP300 printers. 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	Thermal Transfer Printed Legend
Distilled Water	No effect	No effect
Mineral Spirits	No effect	No effect
ASTM #3 Oil	No effect	No effect
Isopropyl Alcohol	No effect	No effect
Methanol	No effect	No effect
3% Alconox Detergent	No effect	No effect
10% Sodium Hydroxide Solution	No effect	No effect
10% Sulfuric Acid Solution	No effect	No effect
5% Sodium Chloride Solution	No effect	No effect
Freon TF	No effect	No effect
Super Agitene	No effect	No effect
Jet-A Fuel	No effect	No effect
Arco TruSlide 68	No effect	No effect
SAE 30 Motor Oil	No effect	No effect

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