

Technical Data Sheet**Laser/Inkjet Turn Tell Label**

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

Printable Material Suffixes		
X1J		

PRODUCT SPECIFICATIONS:

Description:	Material is RoHS compliant (European Union directive 2011/65/EU). Material is a top coated polymer 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 laser and inkjet printing.
Adhesive:	Acrylic based, pressure sensitive adhesive.
Standard Colors:	Clear film with white print-on area
Thickness:	3.5 +/- 0.5 mils (substrate and adhesive)
Service Temperature Range:	-65°F to 225°F (-54°C to 107°C)
Minimum Application Temperature:	50°F (10°C)
Storage Conditions:	Store at 70°F (21°C) and 50% Relative Humidity.

PROPERTIES:

Peel Adhesion to Stainless Steel:
Shear Adhesion:
Tensile Strength:

Elongation:

Tack:

Elevated Temperature Exposure:

UV Resistance:

PERFORMANCE:

35 oz/in width (PSTC-101, 15 min. dwell)
24+ hours (PSTC-107, Procedure A)
MD: 56.0 +/- 5.6 lbs./inch width minimum (PSTC-131)

MD: 160% minimum (PSCT-131)

470 g/cm² (ASTM D-2979, 1 sec dwell)

After 8 hours at 275°F (135°C) there was no deterioration of the substrate.

*3000 hours no change observed (ASTM G154)

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

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

Samples were printed on laser and inkjet printers. These samples were wrapped around a 1/12" OD wire in a 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	Print	
		Laser	Inkjet
Distilled Water	No effect	No effect	No effect
Mineral Spirits	No effect	No effect	No effect
ASTM #3 Oil	No effect	No effect	No effect
Isopropyl Alcohol	No effect	No effect	No effect
Methanol	No effect	No effect	No effect
3% Alconox Detergent	No effect	No effect	No effect
10% Sodium Hydroxide Solution	No effect	No effect	No effect
10% Sulfuric Acid Solution	No effect	No effect	No effect
5% Sodium Chloride Solution	No effect	No effect	No effect
Freon TF	No effect	No effect	No effect
Super Agitene	No effect	No effect	No effect
Jet-A Fuel	No effect	No effect	No effect
SAE 30 Motor Oil	No effect	No effect	No effect
Methyl Ethyl Ketone	No effect	No effect	No effect

PSTC: PRESSURE SENSITIVE TAPE COUNCIL (U.S.A)**ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS (U.S.A)****LIMITED WARRANTY**

All *PANDUIT* Identification Solution Products (except for Software programs) are warranted to be free from defects in material and workmanship at the time of sale but our obligation under this warranty is limited to replacement of the product proved to be defective within 6 months from the date of sale, or in the case of printers, within 90 days from the date of sale. This warranty is void if the products or printers are modified, altered or misused in any way. Use of *PANDUIT* printers with any product other than the specified *PANDUIT* products for which the printer was designed constitutes misuse. Before using, the user shall determine the suitability of the product for its intended use and user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be altered except by an agreement signed by officers or seller and manufacturer.

NEITHER *PANDUIT* OR SELLER SHALL BE LIABLE FOR ANY OTHER INJURY, LOSS OR DAMAGE, WHETHER DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR THE INABILITY TO USE THE PRODUCT OR THE PRINTER.

THIS WARRANTY IS MADE IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS OF PARTICULAR USE ARE SPECIFICALLY EXCLUDED.

The information contained in this literature is based on our experience to date and is believed to be reliable. It is intended as a guide or use by persons having technical skill at their own discretion and risk. We do not guarantee favorable results or assume any liability in connection with its use. Dimensions contained herein are for reference purposes only. This publication is not to be taken as a license to operate under, or a recommendation to infringe any existing patents. This supersedes and voids all previous literature, etc.