

**Technical Data Sheet**

# Self Laminating Clear Polyvinylidene Fluoride Film

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

| Part Number Prefixes |  |  |
|----------------------|--|--|
|                      |  |  |
|                      |  |  |
|                      |  |  |
|                      |  |  |

| Printable Material Suffixes |  |  |
|-----------------------------|--|--|
| T1T                         |  |  |
| T1J                         |  |  |
| T1D                         |  |  |
|                             |  |  |

**PRODUCT SPECIFICATIONS:**

|                                  |   |
|----------------------------------|---|
| Description:                     | Material is RoHS compliant (European Union directive 2002/95/EC).<br>Material is a self-extinguishing top coated polyvinylidene fluoride 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:                       | 1.8 +/- 0.3 mils (substrate and adhesive)   |
| Service Temperature Range:       | -65°F to 275°F (-53.9°C to 135°C)   |
| Minimum Application Temperature: | 50°F (10°C)   |
| 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)<br>66 oz/in width (PSTC-101, 72 hours dwell)  |
| Shear Adhesion:                   | 24+ hours (PSTC-107, Procedure A)  |
| Tensile Strength:                 | MD 7 lbs/inch +/- 0.7 lbs/inch (PSTC-131)<br>TD 7 lbs/inch +/- 0.7 lbs/inch (PSTC-131) |
| Tack:                             | 460 g/cm <sup>2</sup> (ASTMD2979-71, 1 sec. dwell)                                     |
| Elongation:                       | MD 400% +/- 10% (PSTC-131)<br>TD 125% +/- 10% (PSTC-131)                               |
| Elevated Temperature Exposure:    | After 24 hours at 160°F (70°C) there was no deterioration of the substrate             |
| Dielectric Strength:              | 1900 Volts /mil (ASTM D149-09, Method A)   |
| Flammability:                     | Average burn time less than 10 seconds (ASTM D1000)                                    |
| UV Resistance:                    | *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 dot matrix printed with Panduit PDLR ribbon, thermal transfer printed with RMH\*BL/RMEH\*BL and RMR\*BL/RMER\*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.

| Chemical Reagent              | Visual Observation    |                           |                                 |                      |                       |
|-------------------------------|-----------------------|---------------------------|---------------------------------|----------------------|-----------------------|
|                               | 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                      | Slight adhesive bleed | No effect                 | No effect                       | No effect            | No effect             |
| 3% Alconox Detergent          | No effect             | 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                 | 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             |

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APPROVALS:UL Recognized: UL 969  
File Number: MH14979CUL Recognized: C22.2 No. 0.15-01  
File Number: MH 14979**LIMITED WARRANTY**

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