

Technical Data Sheet

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 | | |
|----------------------|--|--------------|
| TTSL | | TTSL*VC3-*-Y |
| | | |
| | | |
| | | |

| Printable Material Suffixes | | |
|-----------------------------|--|--|
| VA1Y | | |
| V*TY | | |
| | | |
| | | |

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 thermal transfer printing. |
| Adhesive: | Acrylic based, pressure sensitive 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 3200 psi minimum (ASTM D882) 12.2 lbs./inch width minimum (PSTC-131) |
| Elongation: | MD 150% minimum (ASTM D882) 150% minimum (PSCT-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. |
| Dielectric Strength: | 1900 Volts/MIL (ASTM D-149-97, Method A) |

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

Technical Data Sheet

CHEMICAL/SOLVENT RESISTANCE:

Samples were thermal transfer printed with RMR*BL/RMER*BL and RMH*BL/RMEH*BL 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.

| 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 | Slight adhesive bleed | 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 | Slight adhesive bleed | No effect |
| Arco TruSlide 68 | No effect | No effect |
| SAE 30 Motor Oil | No effect | No effect |
| Ethanol | No effect | No effect |
| Bleach | No effect | No effect |
| Gasoline | No effect | No effect |
| Ethylene Glycol | No effect | No effect |

Approvals

UL recognized: UL969

File Number: MH14979

CUL recognized: C22.2 No. 0.15-01

File Number: MH14979

Technical Data Sheet

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