

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 | |
|----------------------|------------|
| PSCB-*-Y | PSWMH-*-Y |
| PSCC-*-Y | PDL* |
| PSM-*-Y | PLD-VBGSLY |
| PSWM-*-Y | |

| Printable Material Suffixes | | |
|-----------------------------|--|--|
| VADY | | |
| VAFY | | |
| VARY | | |
| | | |

PRODUCT SPECIFICATIONS:

| | |
|----------------------------------|---|
| Description: | Material is RoHS compliant (European Union directive 2002/95/EC). Material is a self-extinguishing 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 preprinted and recommended for dot matrix 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 |
| Flammability: | Average burn time less than 10 seconds (ASTM D1000) |
| 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 dot matrix ribbon, and thermal transfer printed with 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 | Pre-Printed Printed Legend | Dot Matrix Printed Legend | Thermal Transfer Printed Legend |
| Distilled Water | No effect | No effect | No effect | No effect |
| Mineral Spirits | Slight adhesive bleed | No effect | No effect | No effect |
| ASTM #3 Oil | Slight adhesive bleed | No effect | No effect | No effect |
| Isopropyl Alcohol | No effect | No effect | No effect | No effect |
| Methanol | No effect | No effect | No effect | No effect |
| 3% Alconox Detergent | Slight adhesive bleed | No effect | No effect | No effect |
| 10% Sodium Hydroxide Solution | No effect | No effect | No effect | No effect |
| 10% Sulfuric Acid Solution | No effect | No effect | No effect | No effect |
| 5% Sodium Chloride Solution | No effect | No effect | No effect | No effect |
| Freon TF | No effect | No effect | No effect | No effect |
| Super Agitene | Slight adhesive bleed | No effect | No effect | No effect |
| Jet-A Fuel | Slight adhesive bleed | No effect | No effect | No effect |
| Arco TruSlide 68 | No effect | No effect | No effect | No effect |
| SAE 30 Motor Oil | No effect | No effect | No effect | No effect |

APPROVALS

UL recognized: UL 969 File Number: MH14576 (PSM-*-Y, PLD-VBGSly), MH14979 (PDL*, VADY)

CUL recognized: C22.2 No 0.15-01 File Number: MH14576 (PSM-*-Y, PLD-VBGSly), MH14979 (PDL*, VADY)

PSCB-*-Y, PSCC-*-Y, PSWM-*-Y, PSWMH-*-Y, VAFY, and VARY are not UL or CUL recognized

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