18900 Panduit Drive
Tinley Park, IL 60487
Customer Service: 800-777-3300

TDS: GMV17-E
Effective Date: 16JAN2020
Revision: 0

**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 | | |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

| Printable Material Suffixes | | |
|---|---|---|
| VAM | | |
| | | |
| | | |
| | | |

## 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 recommended for thermal transfer printing. |
| Adhesive: | Acrylic based, pressure sensitive adhesive. |
| Standard Colors: | Translucent film with white 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)<br>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)<br>12.2 lbs./inch width minimum (PSTC-131) |
| Elongation: | MD 150% minimum (ASTM D882)<br>150% minimum (PSCT-131) |
| 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) |
| Flammability: | Average burn time less than 10 seconds (ASTM D1000). |
| UV Resistance: | *3000 hours no change observed (ASTM G154) |

*3000 hours equate to 5 years of assimilated outdoor UV exposure

**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 | 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 | Adhesive bleed | 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
UL Recognized: UL2238 File Number: MH62615

**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.