

Technical Data Sheet**Thermal Transfer Printable Colored Vinyl Film**

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

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

| Printable Material Suffixes | | |
|-----------------------------|--------|------|
| V*C-BK | V*C-WH | VQ1Y |
| VV1Y | VY1Y | |

*Rev***PRODUCT SPECIFICATIONS:**

| | |
|----------------------------------|--|
| Description: | Material is RoHS compliant (European Union directive 2002/95/EC). Material is a thermal transfer printable vinyl film with a pressure sensitive adhesive. |
| Print Methods: | This material is recommended for thermal transfer printing. |
| Adhesive: | Acrylic based, pressure sensitive permanent adhesive. |
| Standard Colors: | Blue, Green, Orange, Red, Purple, and Black |
| Thickness: | 3.2+/- 0.4 mils (substrate and adhesive) |
| Service Temperature Range: | -50°F to 225°F (-45.6°C to 107°C) |
| Minimum Application Temperature: | 40°F (4.4°C) |
| Storage Conditions: | Store at 70°F (21°C) and 50% Relative Humidity. For cassette products do not exceed 95°F. |

PROPERTIES:**PERFORMANCE:**

| | |
|-----------------------------------|--|
| Peel Adhesion to Stainless Steel: | 45 oz/in width minimum (PSTC-101, 15 min. dwell) |
| Elongation: | MD 120% minimum (PSTC-131) |
| Gloss: | Gloss at 60 degree angle shall be minimum 80 gloss units (GU) per ASTM D2457 |
| 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 |

*Rev***CHEMICAL/SOLVENT RESISTANCE:**

The testing was conducted at room temperature. Samples were thermal transfer printed with Panduit RMER4BL/ RMR11-BL (black) and RMER4WH/RMR11-WH (white) ribbons. Separate sets were conditioned for 24 hours before being immersed in the following solvents for a period of 1 hour and 24 hours. After the samples were removed from the immersed solvents, they were rubbed 10 times with a lint free gauze. Visual observations were noted for any smear or loss of legibility.

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

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Rev

1 Hour Immersion

| Chemical/Solvent | Visual Observation | |
|---------------------|---|---|
| | Black ribbon | White ribbon |
| Jet Fuel | No change | No change |
| Gasoline | Loss of print legibility and adhesive bleed | No change |
| Methyl Ethyl Ketone | Material disintegrates | Material disintegrates |
| 1:1:1 TCE | Loss of print legibility and adhesive bleed | Loss of print legibility and adhesive bleed |
| Trichloroethylene | Material disintegrates | Material disintegrates |
| 409 Cleaner | No change | Loss of print density |
| Alpha Flux 200L | No change | No change |

24 Hours Immersion

| Chemical/Solvent | Visual Observation | |
|-------------------|------------------------|--------------------------|
| | Black ribbon | White ribbon |
| Isopropyl Alcohol | Loss of print density | Loss of print legibility |
| Water 150F | No change | No change |
| Salt water | No change | No change |
| SAE 30 Motor oil | No change | No change |
| Hydraulic Fluid | No change | No change |
| Skydrol | Material disintegrates | Material disintegrates |
| Methanol/Water | No change | No change |
| Ethylene Glycol | No change | No change |
| ASTM #3 Oil | No change | No change |

PSTC: Pressure Sensitive Tape Council

ASTM: American Society for Testing and Materials

Approvals:

UL Recognized: UL969

File Number: MH 14979 (except VV1Y)

CUL Recognized: C22.2 No. 0.15-01

File Number: MH 14979 (except VV1Y)

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