

18900 Panduit Drive Tinley Park, IL 60487

Customer Service: 800-777-3300

TDS: Effective Date: Revision:

GMT4-W 21AUG13

Technical Data Sheet

Thermal Transfer Printable Polyvinyl Fluoride Film

This specification is intended to outline the physical and chemical properties of PANDUIT's pressure sensitive thermal transfer printable polyvinyl fluoride material and include the following part numbers and printable material identifiers:

| Part Number Prefixes | | | | |
|----------------------|--|--|--|--|
| TTC*T | | | | |
| | | | | |
| | | | | |
| | | | | |

| Printable Material Suffixes | | | | |
|-----------------------------|--|--|--|--|
| TJT | | | | |
| | | | | |
| | | | | |
| | | | | |

PRODUCT SPECIFICATIONS:

Description: Material is RoHS compliant (European Union directive 2002/95/EC).

Material is a self-extinguishing, top coated polyvinyl fluoride 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: White

Thickness: 2.5 +/- 0.3 mils (substrate and adhesive)

-40°F to 225°F (-40°C to 106°C). Test at 275°F have shown acceptable results. Service Temperature Range:

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: 35 oz/in width (PSTC-101, 15 min. dwell) Shear Adhesion: 20 hours (PSTC-107, Procedure A) Tensile Strength: MD 12 +/- 1.2 lbs./inch width (PSTC-131)

MD 250% +/- 20% (PSTC-131) Elongation:

After 24 hours at 160°F (70°C) there was no deterioration of the substrate Elevated Temperature Exposure:

Flammability: Passes the Federal Motor Vehicle Safety Standard (FMVSS-302)

Average burn time less than 10 seconds (ASTM D1000)

320 g/cm² (ASTM D-2979-88) Tack:

UV Resistance: *3000 hours no change observed (ASTM G154)

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

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CHEMICAL/SOLVENT RESISTANCE:

The testing was conducted at room temperature. Samples were thermal transfer printed with Panduit RMR*BL/RMER*BL ribbon on the Panduit TDP43MY/TDP43ME printer. Separate sets were conditioned for 24 hours before being immersed in the following solvents for 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.

1 Hour Immersion

| 1 Hour Hillierston | | |
|---------------------|--------------------------|--|
| Chemical/Solvent | Visual Observation | |
| Jet Fuel | No change | |
| Gasoline | No change | |
| Methyl Ethyl Ketone | Loss of print legibility | |
| 1:1:1 TCE | Loss of print density | |
| Trichloroethylene | Loss of print density | |
| 409 Cleaner | No change | |
| Alpha Flux 200L | No change | |

24 Hours Immersion

| Chemical Reagent | Visual Observation |
|-------------------|-----------------------|
| Isopropyl Alcohol | Loss of print density |
| Water 150F | No change |
| Salt Water | No change |
| SAE 30 Motor Oil | No change |
| Hydraulic Fluid | No change |
| Skydrol | Loss of print density |
| Methanol/Water | No change |
| Ethylene Glycol | No change |
| ASTM #3 Oil | No change |

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Chemical/Solvent Resistance:

Test was performed according to PSTC-101, ASTM D-543-87 and ASTM D-896-90. The testing was conducted at room temperature and performed with reference to the above test methods. The samples were cut 1" wide and applied to stainless steel panels and conditioned for 24 hours. The samples were then immersed in the specified reagents for 5 immersions using the following cycle: a 10 min. Immersion time followed by a 30 min. recovery time. After the fifth immersion, the samples were conditioned for 24 hours before testing. Percent retention of performance was based on a 48 hour adhesion value of 42 oz/in.

| Chemical/Solvent | Visual Observation | Percent Retention of Performance |
|---------------------|-----------------------|-------------------------------------|
| Distilled water | No effect | 103% |
| Mineral Spirits | No effect | 88% |
| Toluene | No effect | 88% |
| Isopropyl Alcohol | No effect | 100% |
| Methanol | No effect | 100% |
| Acetone | Slight adhesive bleed | 76% |
| Methyl Ethyl Ketone | No effect | 92% |
| 1,1,1 TCE | No effect | 100% |
| Freon TF | No effect | 103% |
| Super Agitene | No effect | 96% |
| Jet A Fuel | Slight adhesive bleed | 65% |
| Arco Truslide 68 | No effect | 92% |
| SAE 30 Motor Oil | No effect | 108% |

APPROVAL

UL Recognized: UL969 File Number: MH 14576, MH 14979

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