

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

TDS: Effective Date: Revision:

GMPO4 04SEPT15

# **Technical Data Sheet**

# Thermal Transfer Printable Polyolefin Film

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

Part Number Prefixes				
TCT-*PO				
TTC*POWH-C				

Printable Material Suffixes				
FJ6				
FJC-BK				
FJC				
FJT				

## **PRODUCT SPECIFICATIONS:**

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

Material is a top coated polyolefin 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 opaque matte

Thickness: 4.0 +/- 0.6 mils (substrate and adhesive)

Service Temperature Range: -40°F to 180°F (-40°C to 82°C)

-10°F (-23°C) Minimum Application Temperature:

**Storage Conditions:** Store at 70°F (21°C) and 50% Relative Humidity.

For cassette products do not exceed 95°F.

#### **PERFORMANCE: PROPERTIES:**

Peel Adhesion to Stainless Steel: Minimum 30 oz/in width (PSTC-101, 15 min. dwell)

Shear Adhesion: Minimum 2 hours (PSTC-107, Procedure A)

Tensile Strength: MD: minimum 7500 PSI (PSTC-131)

TD: minimum 13000 PSI (PSTC-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

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<sup>\*3000</sup> 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 a period of 1 hour and 24 hours. After the samples were removed for 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 Thinnerston		
Chemical/Solvent	Visual Observation	
Jet Fuel	No change	
Gasoline	Loss of print legibility	
Methyl Ethyl Ketone	Loss of print density	
1:1:1 TCE	No change	
Trichloroethylene	No change	
409 Cleaner	Loss of print legibility	
Alpha Flux 200L	No change	

24 Hours Immersion

21 Month Ammerican		
Chemical/Solvent	Visual Observation	
Isopropyl Alcohol	No change	
Water 150F	No change	
Salt Water	No change	
SAE 30 Motor Oil	No change	
Hydraulic Fluid	No change	
Skydrol	Loss of print legibility	
Methanol/Water	No change	
Ethylene Glycol	Loss of print legibility	
ASTM #3 Oil	Loss of print legibility	

**Approvals:** 

**UL Recognized: UL969** File Number: MH14979

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