

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		
TTC*ET		

Printable Material Suffixes		
FNT		
FNC		

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:	Rubber based, pressure sensitive permanent adhesive.
Standard Colors:	White
Thickness:	2.8 +/- 0.4 mils (substrate and adhesive)
Service Temperature Range:	-40°F to 176°F (-40°C to 80°C).
Minimum Application Temperature:	32°F (0°C)
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:	Film fractures during adhesion test (PSTC-101, 72 hours. dwell)
Shear Adhesion:	24 hours min. (PSTC-107, Procedure A)
Tack:	900 g/cm ² (ASTM D-2979-88)

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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

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

24 Hours Immersion

Chemical Reagent	Visual Observation
Isopropyl Alcohol	Loss of print legibility
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	Slight loss of print legibility
ASTM #3 Oil	No change

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APPROVAL

UL Recognized UL969:

File Number: MH 14979

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.

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