

Technical Data Sheet

Thermal Transfer Printable Magnetic Tape

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

Part Number Prefixes		

Printable Material Suffixes		
MPM-BK		
MXM-BK		

PRODUCT SPECIFICATIONS:

Description:	Material is RoHS compliant (European Union directive 2011/65/EU and Annex II (EU) 2015/863). Material is a thermal transfer printable polyester film laminated to a magnetic sheeting.
Print Methods:	This material is recommended for thermal transfer printing.
Standard Colors:	White, Yellow
Thickness:	13.0 +/- 0.5 mils
Service Temperature Range:	14°F to 104°F (-10°C to 40°C)
Minimum Application Temperature:	59°F (15°C)
Storage Conditions:	Store at 70°F (21°C) and 50% Relative Humidity. For cassette products do not exceed 95°F.

PROPERTIES:**PERFORMANCE:**

UV Resistance:	*3000 hours no change observed (ASTM G154)
Elevated Temperature Exposure:	After 24 hours at 150°F (93.3°C) there was no deterioration of the substrate
Surface magnetic flux density:	13mT
Minimum Adsorptive power:	0.98kPa
Abrasion Resistance:	Taber abraser, CS-10 wheels/250 gm wt./500 cycles, no visible change observed (ASTM D4060)

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

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CHEMICAL/SOLVENT RESISTANCE:

The testing was conducted at room temperature. Samples were thermal transfer printed on MP100/MP300 printers. 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.

1 Hour Immersion

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 legibility
Trichloroethylene	Loss of print legibility
409 Cleaner	No change
Alpha Flux 200L	No change

24 Hours Immersion

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	No change
ASTM #3 Oil	No change

LIMITED WARRANTY

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