

Technical Data Sheet**Panduit GMH5 Film Lamination**

This specification is intended to outline the physical and chemical properties of *PANDUIT*'s GMH5 material and include the following printable material identifiers:

Printable Material Suffixes		
Y1T		

PRODUCT SPECIFICATIONS:

Description:	Material is RoHS compliant (European Union directive 2002/95/EC). GMH5 consists of a topcoated 2 mil polyester film laminated to a 5.0 mil polyester film. This material is halogen free.
Print Methods:	This material is recommended for thermal transfer printing.
Standard Colors:	White
Thickness:	8.0 +/- 0.5 mils
Service Temperature Range:	-10°F to 302°F (-23°C to 150°C)
Minimum Application Temperature:	50°F (10°C)
Storage Conditions:	Store at 70°F (21°C) and 50% Relative Humidity.

PROPERTIES:**PERFORMANCE:**

Tensile Strength:	MD: 140 +/- 14.0 lbs./inch width (PSTC-131) TD: 160 +/- 16.0 lbs./inch width (PSTC-131)
Elongation:	MD: 100% +/- 10% (PSTC-131) TD: 55% +/- 10% (PSTC-131)
UV Resistance:	*3000 hours no visual change observed (ASTM G154).
Humidity Resistance:	30 days at 100°F(37°C) and 95% R.H, no visible change observed
Abrasion Resistance:	CS-10 wheels/250 gm wt/50 cycles, no visible change observed

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

CHEMICAL/SOLVENT RESISTANCE:

The testing was conducted at room temperature. Samples were thermal transfer printed with Panduit RMR*BL/RMER*BL black 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 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.

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1 Hour Immersion

Chemical/Solvent	Visual Observation for White Tag with RMR*BL, RMER*BL black ribbon
Jet Fuel	No change
Gasoline	Loss of print legibility
Methyl Ethyl Ketone	Loss of print legibility
1:1:1 TCE	No change
Trichloroethylene	Loss of print legibility
409 Cleaner	No change
Alpha Flux 200L	No change
Toluene	Loss of print density
3% Alconox	No change
10% Sodium Hydroxide	No change
10% Sulfuric Acid	No change
Degreaser	No change

24 Hours Immersion

Chemical/Solvent	Visual Observation for White Tag with RMR*BL, RMER*BL black ribbon
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 density
Methanol/Water	No change
Ethylene Glycol	No change
ASTM #3 Oil	No change

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