

Reflective Tape

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

Part Number Prefixes		

Printable Material Suffixes		
R*1		
R*C		
R*T		

PRODUCT SPECIFICATIONS:

Description:	Material is RoHS compliant (European Union directive 2002/95/EC). GMRS consists of a topcoated 1.0 mil polyester film laminated to a 6.0 mil reflective sheeting with a pressure sensitive adhesive.
Print Methods:	This material is recommended for thermal transfer printing.
Adhesive:	Acrylic based, pressure sensitive permanent adhesive.
Standard Colors:	Yellow, Orange, White, Red, and Blue
Thickness:	8.0 +/- 0.8 mils (substrate and adhesive)
Service Temperature Range:	-10°F to 150°F (-23°C to 65°C)
Minimum Application Temperature:	65°F (18°C)
Storage Conditions:	Store at 70°F (21°C) and 50% Relative Humidity. For cassette products do not exceed 95°F.

PROPERTIES:

PERFORMANCE:

Peel Adhesion to Stainless Steel:	Tear (PSTC-101, 15 min. dwell)
Shear Adhesion:	24+ hours (PSTC-107, Procedure A)
Tensile Strength:	MD 10 +/- 2 lbs./inch width (PSTC-131)
UV Resistance:	*3000 hours no change observed (ASTM G154)
Elevated Temperature Exposure:	After 48 hours at 150°F (65.5°C) there was no deterioration of the substrate

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

Technical Data Sheet

CHEMICAL/SOLVENT RESISTANCE:

The testing was conducted at room temperature. Samples were thermal transfer printed with Panduit RMER4BL and RMER4WH on the Panduit TDP43ME printer.

Chemical/Solvent	7 DAY IMMERSION		DIP TEST		RUB TEST	
	RMER4BL	RMER4WH	RMER4BL	RMER4WH	RMER4BL	RMER4WH
30% Sulfuric Acid	1	1	1	1	1	1
10% Sulfuric Acid	1	1	1	1	1	1
30% Hydrochloric Acid	1	1	1	1	1	1
10% Hydrochloric Acid	1	1	1	1	1	1
50% Sodium Hydroxide	1	1	1	1	1	1
10% Sodium Hydroxide	1	1	1	1	1	1
Methyl Ethyl Ketone	3	3	3	3	3	3
Acetone	3	3	3	3	3	3
1:1:1 Trichloroethane	3	3	1	3	3	3
Isopropyl Alcohol	1	2	1	3	1	3
ASTM#3 Oil	1	1	1	3	1	1
SAE 30 Oil	1	1	1	1	1	1
Alconox	1	1	1	1	1	1
Toluene	3	3	1	3	3	3
Mineral Spirits	1	1	1	3	1	1
Glacial Acetic Acid	3	3	3	3	3	3
Diesel Fuel	2	2	1	1	1	1
10% Sodium Chloride	1	1	1	1	1	1
Water	1	1	1	1	1	1
Gasoline	2	2	2	3	3	3

1 = No change**2 = Slight failure in Legibility****3 = Failure in Legibility****7 Day Immersion = Immersed in chemical/solvent for 7 days****Dip Test = Five 10 minute dips in chemical/solvent followed by 30 minute recovery time****Rub Test = Rubbed sample for 1 minute with swab soaked in chemical/solvent****APPROVALS**

UL Recognized: UL 969

File number: MH14979 (R*1, R*T only)

CUL Recognized: C22.2 No 0.15-01

File number: MH14979 (R*1,R*T only)

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