

**Technical Data Sheet**

## 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*C		

**PRODUCT SPECIFICATIONS:**

Description:	Material is RoHS compliant (European Union directive 2002/95/EC). GMRS consists of a topcoated 5.0 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:	6.0 +/- 0.6 mils (substrate and adhesive)
Service Temperature Range:	-69°F to 180°F (-56°C to 82°C)
Minimum Application Temperature:	50°F (10°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.

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### 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	3	3	3	3
Isopropyl Alcohol	1	2	1	1	1	1
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	3	3	3	3
Mineral Spirits	1	1	1	1	1	1
Glacial Acetic Acid	3	3	3	3	3	3
Diesel Fuel	1	1	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

CUL Recognized: C22.2 No 0.15-01

File number: MH14979

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