

Technical Data Sheet

Preprinted GMPMDR Markers

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

Part Number Prefixes
PMDR-*

PRODUCT SPECIFICATIONS:

Description:	Material is RoHS compliant (European Union directive 2002/95/EC). GMPMDR consist of a 1.0 mil polyester film with pressure sensitive adhesive. This material meets the flame retardancy requirements of UL510.
Print Methods:	This material is preprinted.
Adhesive:	Acrylic based, pressure sensitive permanent adhesive.
Standard Colors:	White, Yellow, Orange, Red, Blue, Green, Grey, Black, Purple, and Brown.
Thickness:	2.5 +/- 0.5 mils (substrate and adhesive)
Service Temperature Range:	-30°F to 266°F (-1°C to 130°C)
Minimum Application Temperature:	50°F (10°C)
Storage Conditions:	Store at 70°F (21°C) and 50% Relative Humidity.

PROPERTIES:**PERFORMANCE:**

Peel Adhesion to Stainless Steel:	25 oz/in width minimum (PSTC-101, 15 min. dwell)
Shear Adhesion:	20+ hours (PSTC-107, Procedure A)
Tensile Strength:	MD 20 +/- 2.0 lbs./inch width (PSTC-131)
Elongation:	MD 50% +/- 10% (PSTC-131)
Elevated Temperature Exposure:	After 8 hours at 150°F (65.5°C) there was no deterioration of the substrate

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Test performed according to PSTC-101, ASTM D543-06 and ASTM D896-04.

The testing was conducted at room temperature and performed with reference to the above test methods. The samples were cut 1" wide and were applied to stainless steel panels and conditioned for 24 hours. The samples were then immersed in the specified reagents for 5 immersions using the following cycle: a 10 minute immersion time followed by a 30 minute recovery time. After the fifth immersion, the samples were conditioned for 24 hours before testing. Percent retention of performance was based on a 48 hour adhesion value of 27.0 oz/inch width.

Chemical Reagent	Visual Observation	Print	Percent Retention of Performance
Distilled Water	No effect	No effect	100%
Mineral Spirits	Slight Adhesive Bleed	No effect	88%
Toluene	No effect	No effect	95%
Isopropyl Alcohol	No effect	No effect	100%
Methanol	No effect	No effect	100%
Acetone	No effect	No effect	100%
Methyl Ethyl Ketone	Slight Adhesive Bleed	No effect	88%
1,1,1 Trichloroethane	Slight Adhesive Bleed	No effect	88%
Freon TF	No effect	No effect	98%
Super Agitene	No effect	No effect	100%
Jet-A Fuel	Slight Adhesive Bleed	No effect	90%
Arco TruSlide 68	No effect	No effect	100%
SAE 30 Motor Oil	No effect	No effect	100%

PSTC: Pressure Sensitive Tape Council (U.S.A.)
ASTM: American Society for Testing & Materials (U.S.A.)

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