

**Technical Data Sheet****Panduit Terminal Block Markers**

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

Material Part Number		
TB05X12EWT-AB1	TB06X12EWT-AB1	TB08X12EWT-AB1
TB05X08EWT-AB2	TB06X08EWT-AB2	

**PRODUCT SPECIFICATIONS:**

Description:	Material is RoHS complaint (European Union directive 2002/95/EC). Terminal Block Marker is a continuous molded flexible polymer material. This thermoplastic elastomeric material shall readily accept continuous thermal transfer print using the Panduit TDP43ME printer. These markers are for indoor use only.
Standard Colors:	White
Service Temperature Range:	Minus 40°F to 180°F (Minus 40°C to 82°C).
Substrate Type:	Flame retardant and halogen free thermoplastic elastomer (TPE)
Flammability:	UL 94V-0
Abrasion Resistance:	Taber abraser, CS-10 wheels/250gm wt./200 cycles, no visible change observed (ASTM D3389)
Storage Conditions:	Store at 70°F (21°C) and 50% Relative Humidity.

**CHEMICAL/SOLVENT RESISTANCE:**

1. Test was conducted at room temperature. Printed samples were immersed in the specified chemical/solvent for 5 immersions using the following cycle: a 10 minute immersion time followed by a 30 minute recovery time. Performance of the samples were determined visually by subjective observation of any change.

Chemicals/Solvents	Printed Legend
3% Sodium Hydroxide	No change
Ammonia	No change
Ethanol	No change
Isopropyl Alcohol	No change
Ethylene Glycol	No change
Ethyl Acetate	No change
ASTM #3 oil	No change

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Xylol	No change
Benzene	No change
Hydraulic Fluid	No change
Refrigerator Oil	No change
Unleaded Gasoline	No change
5% Sodium Chloride	No change
5% Potassium Chloride	No change
Ammonium Chloride	No change

2. Printed samples were immersed in the specified chemicals/solvents for 10 days. Visual observations were noted for any smear or loss of legibility after the samples were removed from the chemicals/solvents.

Chemical/ Solvent	Printed Legend
Acetone	No change
Hexane	No change
Ethanol	No change

3. Printed samples were rubbed rigorously for 30 seconds with a lint free gauze saturated with 70% isopropyl alcohol solution. There was no smear or loss of print legibility.
4. Printed samples exposed to the Salt spray exposure test (IEC 60068-2-11, Part 2, Test Ka) showed no smear or loss of print legibility.

**REFERENCES**

ASTM: American Society for Testing and Materials (U.S.A.)

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