

IRREVERSIBLE TEMPERATURE LABELS FOR LOW TEMPERATURES

TDS No. B-7511
Effective Date: 11/26/2015

Description:

GENERAL

Materials Type: Subsurface printed clear polyester

Finish: Glossy

Adhesive: Permanent modified acrylic

APPLICATIONS

Temperature indicating labels for permanent record of the highest temperature reached. Temperature range covered is 37°C/ 99°F to 143°C/289°F.

REGULATORY/AGENCY APPROVALS

Brady B-7511 is RoHS compliant to RoHS directive 2011/65/EU.

Details:

Properties :

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total label thickness (excluding temperature element) - Total label thickness including temperature element (approximately)	0.050 mm (0.002 inch) 0.125 mm (0.0049 inch) 0.175 mm (0.0069 inch) 0,400 mm (0.016 inch)
Adhesion to:	ASTM D 1000	
- Stainless Steel	24 hour dwell	153 N/100 mm (138 oz/inch)
- Smooth ABS	24 hour dwell	169 N/100 mm (153 oz/inch)
- Polypropylene	24 hour dwell	112 N/100mm (101 oz/inch)
- Polyester Powder Coated Paint	24 hour dwell	151 N/100 mm (137 oz/inch)
Minimum Application Temperature	+10°C	

Colour Change Material

Non toxic, white crystalline solid on a black absorbent backing, adhered with acrylic adhesive.

Tolerances

<100°C = ±1°C

100°C-143°C = ±1.5°C

Shelf Life

The actual storage life for labels up to 37°C/100°F , if sealed in a plastic bag and stored in a refrigerator, is 12 months. For labels from 60°C/140°F-116°C/241°F the actual storage life is 24 months when stored around 20°C/68°F and 50% relative humidity.

Trademarks:

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

Note: All values shown are averages and should not be used for specification purposes.

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