



BRADY B-388 STANDARD TEMPERATURE CABLE MARKER

TDS No. B-388
 Effective Date: 1/10/20

GENERAL PRODUCT DESCRIPTION:

Print Technology: Thermal Transfer
Material Type: Polyolefin
Available Colors: White, yellow

APPLICATIONS:

B-388 cable markers are designed as a high performance wire bundle and cable identification tag. This standard temperature cable marker is meant for areas with continuous operating temperature up to 135°C.

RECOMMENDED RIBBON

Brady R6600 series black ribbon

REGULATORY APPROVALS

B-388 is compliant to RoHS Directive 2011/65/EU and Amendment 2015/863.

SPECIAL FEATURES

B-388 cable markers are supplied in roll form designed for use with thermal transfer printers. The unique design has smooth edges which minimize risk of abrasion to wire and cable jackets.

Details:

| PHYSICAL-PROPERTIES | TEST METHODS | TYPICAL RESULTS |
|---------------------|--------------------------|------------------------|
| Thickness | | 0.020 +/- 0.003 inches |
| Tensile Strength | ASTM D882, 20"/min speed | > 1500 psi |
| Ultimate Elongation | ASTM D882, 20"/min speed | > 200 % |
| Specific Gravity | ASTM D792 Method A | ≤ 1.48 |

| PERFORMANCE PROPERTIES | TEST METHODS | TYPICAL RESULTS |
|-----------------------------|---|---|
| Heat Shock | 4 hours @ 250°C, bend over 10x thickness mandrel | Tag darkens but is legible, no cracking when bent over mandrel |
| Heat Aging | 168 hours @ 175°C bend over 10x thickness mandrel | Tag darkens slightly but is legible, no cracking when bent over mandrel |
| Low Temperature Flexibility | 4 hours @ -55°C, bend over 10x thickness mandrel | No visible effect, no cracking when bent over mandrel |
| Operating Temperature | | -55°C to 135°C |
| Copper Mirror Corrosion | ASTM D 2671, Procedure A | No corrosion |
| Weatherability | ASTM G155 Cycle 1, 1000 hours | Tag darkens slightly but is legible |
| UV Light Resistance | ASTM G155 Cycle 1 dry, 1000 hours | Tag darkens slightly but is legible |
| Humidity Resistance | 1000 hours at 100°F/95% RH | No visible effect |
| Salt Fog | 1000 hours at 5% Salt Spray | No visible effect |

B-388 white and yellow cable markers exhibit the following performance when printed using the Brady i7100 (300 dpi) with R6600 black ribbon.

| PERFORMANCE PROPERTY | TEST METHODS | TYPICAL RESULTS |
|---|-----------------------------------|----------------------------------|
| Print Adherence per SAE-AS5942 (sec 4.1) | 20 eraser rubs with 2 lb pressure | Print legible, no visible effect |
| Solvent Resistance per SAE-AS5942 (Sec 3.4.2) | MIL-STD-202-215 Method 215 | Print legible, no visible effect |

Chemical resistance

B-388 white and yellow cable markers were thermal transfer printed with Brady R6600 series black ribbon. Tests were conducted at room temperature after 24 hour dwell. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery periods. After the final immersion, the samples were removed from the test fluid and the printed image was rubbed 20 (10 double rubs) times with a cotton swab saturated with the test fluid.

| CHEMICAL REAGENT | R6600 PRINTING WITHOUT RUB | R6600 PRINTING WITH RUB |
|---------------------|----------------------------|-------------------------|
| Isopropyl alcohol | 1 | 1 |
| Methyl Ethyl Ketone | 1 | 3 |
| Gasoline | 1 | 4 |
| Diesel Fuel | 1 | 2 |
| MIL 5606 Oil | 1* | 1 |
| 20W Oil | 1 | 1 |
| Skydrol ® 500 B-4 | 1 | 2 |
| JP-8 Jet Fuel | 1 | 2 |
| 10% NaCl | 1 | 1 |
| Deionized Water | 1 | 1 |

*Slight color shift was observed

PRINT EFFECT

- 1 = No visible effect
- 2 = Slight smear or print removal, detectable but minimal smear
- 3 = Moderate smear or print removal (print still legible)
- 4 = Severe smear or print removal (print illegible or just barely legible)
- 5 = Complete print removal
- NP = print removed prior to rub

Shelf life is five years from the date of receipt for this product as long as this product is stored in its original packaging in an environment at 32-95 degrees F (0-35 degrees C). It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual applications.

Trademarks:

ASTM: American Society for Testing and Materials (U.S.A.)
 Skydrol® is a registered trademark of Monsanto Company

Note: All values shown are typical and should not be used for specification purposes. Test data and test results contained in this document are for general information only and shall not be relied upon by Brady customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information.

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