Technical Data Sheet

BRADY B-389 WIRE MARKING INSERT & BRADY WIRE MARKING CARRIERS

TDS No. B-389
Effective Date: 06/11/2009

Description:

Brady B-389 Inserts are printable rigid inserts designed to be printed and affixed to a wire using extruded, clear PVC Brady Wire Marking Carriers.

Brady B-389 Inserts are supplied roll form formatted for dot matrix printing on ID PRO® Plus Wiremarker Printer, LS2000 Labeling System, and desktop printers. B-389 is available in white and yellow. Other colors are available upon request.

The Brady Series 7300 high performance ribbon is recommended for the best dot matrix print performance in the ID PRO® Wiremarker Printer. The Brady Series 5000 high performance ribbon is recommended for the best dot matrix print performance in the LS2000 Labeling System and the Sleeve and Datab® Printer. B-389 can also be printed with the Brady Series 2000 ribbon.

B-389 is supplied in a custom height and two widths which are compatible with carriers. The available widths are 0.5" (12.7 mm) and 1.0" (25.4 mm). Brady Wire Marking Carriers are supplied cut to length. Available lengths include 15 mm and 30 mm. Sizes are for marking wires from 1.3 mm to 16.0 mm in diameter (OD).

Exposing the inserts to UV light for an extended period of time will reduce the scratch resistance of the product. B-389 is designed for one time use only

Brady B-389 meets the requirements of a halogen-free material per DIN VDE 0472 part 815. (Statement based on review of product construction and confirmatory halogen content test run at an independent test laboratory.)

Brady B-389 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

Details:

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS B-389	TYPICAL RESULTS CARRIER
High Service Temperature	1000 hrs at 212°F (100°C)	Slight series 5000 print bleed. No visible effect to series 7300 print.	Slight discoloration
Low Service Temperature	1000 hrs at -40°F (-40°C)	No visible effect.	No visible effect
Humidity Resistance	1000 hrs at 100°F (37°C), 95% R.H.	Slight series 5000 and 7300 print bleed.	No visible effect
UV Light Resistance	1000 hrs in UV Sunlighter™ 100	Slight topcoat discoloration. No visible effect to print.	Slight discoloration
Weatherability	ASTM G155, Cycle 1 1000 hrs in Xenon Arc Weatherometer	Complete topcoat removal.	Slight discoloration
Marking Permanence MIL-M-81531 20 erasure rubs	20 eraser rubs with hard hand pressure	No visible effect.	Not applicable

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

Samples were printed with Series R5000 ribbons and dwelled 24 hours prior to test. Testing consisted of 5 cycles of 10 minute immersions in the specified chemicals followed by 30 minute recovery periods. After the final immersion, the samples were rubbed with cotton swabs. Testing was conducted with inserts outside of carriers at room temperature; results are improved when samples are tested after inserting into carriers. Carrier results are from tests without the inserts.

CHEMICAL REAGENT	APPEARANCE OF INSERT AND PRINT WITHOUT RUB	APPEARANCE OF INSERT AND PRINT WITH RUB	APPEARANCE OF CARRIER
Methyl Ethyl Ketone	Topcoat removed	Topcoat removed	Completely destroyed< /font>
1,1,1-Trichloroethane	Topcoat removed	Topcoat removed	Carrier hardened
Alcohol Mix*	No visible effect	No visible effect	No visible effect

Mineral Spirits	No visible effect	No visible effect	No visible effect
JP-8 Jet Fuel	No visible effect	Slight print smear	No visible effect
SAE 20 WT Oil	Insert strained cream, no visible effect	No visible effect	No visible effect
ASTM #3 Oil	Insert strained yellow, no visible effect	No visible effect	Carrier tinted yellow
Mil 5606 Oil	Insert stained peach, no visible effect to print	No visible effect	Carrier tinted pink
Mil 7808 Oil	Insert stained orange, no visible effect to print	No visible effect	Carrier tinted brown
Thread Ezy®	Insert stained tan, no visible effect to print	No visible effect	Carrier tinted brown
Skydrol® 500B-4	Moderate print fade	Topcoat removed	Carrier tinted purple and severely deformed
Super Agitene®	Insert stained pale green, no visible effect to print	No visible effect	Carrier tinted green
CFC Free-Electro Wash 2000	Slight print fade	Topcoat removed	Carrier hardened
Deionized Water	No visible effect	No visible effect	No visible effect
3% Alconox® Detergent	No visible effect	No visible effect	No v isible effect
10% Sulfuric Acid Solution	No visible effect	Slight print fade	No visible effect
5% Salt Water Solution	No visible effect	No visible effect	No visible effect

* Alcohol Mix is 50% ethanol, 30% methanol, and 20% water by volume.

Product testing, customer feedback, and history of similar products, support a customerperformance expectation of at least***two years from the date of receipt*** for this product as long as this product is stored in its original packaging in an environment *below 80 degrees F (27 degrees C) and 60% RH* . We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use, in their actual applications.

Trademarks:
Alconox® is a registered trademark of Alconox Co.
Datab® is a registered trademark of Brady Worldwide, Inc.
ID PRO® is a registered trademark of Brady Worldwide, Inc.
Skydrol® is a registered trademark of the Monsanto Company
Sunlighter™ is a trademark of the Test Lab Apparatus Company
Super Agitene® is a registered trademark of Graymills Corporation
Thread Ezy® is a registered trademark of the Toledo-Bever Tools Company
ASTM: American Society for Testing and Materials (U.S.A.)
SAE: Society of Automotive Engineers (U.S.A.)
All S.I. Units (metric) are mathematically derived from the U.S. Conventional Units.

Note: All values shown are averages 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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Brady North America | 6555 W. Good Hope Rd | Milwaukee, WI 53223 | USA | Tel: 414-358-6600 | Fax: 800-292-2289