

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

TDS No. XB-389

Effective Date: 11/15/2017

Description:

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

Brady XB-389 Inserts are supplied roll form on cardstock formatted for dot matrix printing on I.D. PRO® Wiremarker Printer, LS2000 Labeling System, and desktop printers. XB-389 is available in white and yellow.

The Brady Series 5000 high performance ribbon is recommended for the best dot matrix print performance. XB-389 can also be printed with the Brady Series 2000 ribbon.

XB-389 is supplied in a custom height and three widths which are compatible with carriers. The available widths are 0.5" (12.7 mm), 1.0" (25.4 mm), and 1.50" (38.1 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. XB-389 is designed for one time use only.

Brady XB-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.)

Details:

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS XB-389	TYPICAL RESULTS CARRIER
High Service Temperature	1000 hrs at 212°F (100°C)	Slight topcoat discoloration. No visible effect to Series 2000 or 5000 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 2000 or 5000 print bleed.	No visible effect
UV Light Resistance	1000 hrs in UV Sunlighter™ 100	Slight topcoat discoloration. Slight Series 2000 or 5000 print fade.	Slight discoloration
Weatherability	ASTM G 26 1000 hrs in Xenon Arc Weatherometer	Slight topcoat discoloration. Moderate Series 2000 or 5000 print fade.	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
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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	Moderate print fade	Topcoat removed	Completely destroyed
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	Moderate print smear	No visible effect
SAE 20 WT Oil	No visible effect	No visible effect	No visible effect
ASTM #3 Oil	No visible effect	No visible effect	Carrier tinted yellow
Mil 5606 Oil	Insert stained red, no visible effect to print	No visible effect	Carrier tinted pink
Mil 7808 Oil	Insert stained tan, 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 green, no visible effect to print	Slight print smear	Carrier tinted green
Gasoline	Insert stained yellow, no visible effect to print	Topcoat removed	Carrier tinted yellow
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 visible effect
10% Sulfuric Acid Solution	No visible effect	No visible effect	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.

PERFORMANCE PROPERTY	TEST METHOD
Chemical Resistance	MIL-STD-202F, Notice 12, Method 215J

Samples printed with Series R5000 ribbon using. Labels printed with alphanumerics. Samples subjected to 3 cycles of 3 minute immersions immediately followed by a toothbrush rub after each immersion.

TEST FLUID	TYPICAL RESULTS
Solvent A 1 part IPA, 3 parts Mineral Spirits	No visible effect
Solvent B 1,1,1-Trichloroethane	Solvent deleted per Notice 12
Solvent C Terpene Defluxer	No visible effect
Solvent D Saponifier at 63°-70°C	No visible effect

Shelf life is one year from the date of receipt for this product as long as this product is stored in its original packaging in an environment below 80° F (27° C) and 60% RH. 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 application.

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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.)

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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