

BRADY B-319 BRADYSLEEVE MARKER

TDS No. B-319

Effective Date: 03/21/2019

Description: GENERAL

Print Technology: Dot matrix and thermal transfer

Material Type: Non-shrinkable, high density polyolefin film

Finish: Sleeves suplied in various configurations

APPLICATIONS

B-319 BradySleeve™ Marker is used in manufacturing, construction, and maintenance activities to identify electrical wires and cables where specifications or environments require the use of sleeves.

B-319 BradySleeve™ Markers are dot matrix printable sleeves supplied in various configurations. B-319 can also be printed with a typewriter or permanent marking pen.

RECOMMENDED RIBBONS

Brady Series R5000 for dot matrix printing

REGULATORY APPROVALS

For information on the Weee-RoHS compliance status for a Brady Product go to one of the following websites:

In Canada: www.bradycanada.ca/weee-rohs
In Europe: www.bradyeurope.com/rohs

In Japan: www.brady.co.jp/products/labelsuse/rohs
All other regions: www.bradyid.com/weee-rohs

Details:

PROPERTIES	TEST METHOD	TYPICAL RESULTS
Total Sleeve Thickness (at welds)	ASTM D 1000	0.018 inch (0.46 mm)
Sleeve Wall Thickness	ASTM D 1000	0.006 inch (0.15 mm)
Tensile and Elongation of Sleeve Film	ASTM D 638	22 lb/inch (385 N/100 mm)
·	Machine direction, 20 in/minute crosshead speed	520% elongation
High Service Temperatures	5 minutes at 160°C (320°F)	No visible effect to sleeve or printing.
	24 hours at 160°C (320°F)	Sleeves distort and shrink at above
	30 days at 130°C (266°F)	160°C.
Low Service Temperature	30 days at -65°C (-85°F)	No visible effect
Weatherability *	30 days in Xenon-Arc Weatherometer	Very slight print fade
	(ASTM G155, Cycle 1)	
UV Light Resistance	30 days in UV Sunlighter™ 100	No visible effect
Humidity Resistance	30 days at 100°F/95% RH	No visible effect
Salt Fog	30 days at 5% Salt Spray	No visible effect
Marking Permanence	20 eraser rubs with hard hand pressure.	Slight print smear but still easily legible
MIL-M-81531		
20 erasure rubs	3 cycles of 3 minute immersions in	Slight print fade but still easily legible in
	specified fluids followed by toothbrush	all three test fluids
MIL-STD-202, Method 215J	rub after each immersion.	
Solution A		
Solution C		
Solution D		

^{*} B-319 BradySleeve™ Marker is not recommended for extended outdoor application.

Samples tested printed with Brady Series R5000 Series dot matrix ribbon.

Solution A: 1 part isopropyl alcohol, 3 parts mineral spirits Solution B: Deleted from MIL-STD-202, Method 215J Solution C: BIOACT® EC-7R™ terpene defluxer

PROPERTIES	SOLVENT RESISTANCE
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Samples were dot-matrix printed using Brady Series R5000 ribbon then placed on appropriate size wires. Test conducted at room temperature after 24 hour dwell. Testing consisted of five cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery periods. Samples rubbed with cotton swab after final immersion.

CHEMICAL REAGENT	SUBJECTIVE OBSERVA	SUBJECTIVE OBSERVATIONS OF VISUAL CHANGE	
	TUBING AND PRINTING WITHOUT	PRINTING WITH SWAB RUB	
	SWAB RUB		
Methyl Ethyl Ketone	No visible effect	Severe print fade	
1,1,1-Trichloroethane	No visible effect	Moderate print fade, still legible	
Isopropyl Alcohol	No visible effect	No visible effect	
Gasoline	No visible effect	Total print removal	
JP-8 Jet Fuel	No visible effect	Severe print removal	
Kerosene	No visible effect	Severe print fade	
Mil 5606 Oil	Tubing stained red	Slight print fade	
Mil 7808 Oil	No visible effect	No visible effect	
Speedi Kut Cutting Oil 332	No visible effect	Moderate print removal	
Skydrol® 500B4	No visible effect	Moderate print removal	
Propylene Glycol	No visible effect	No visible effect	
Rust Veto® 377	Tubing stained brown	Moderate print removal	
Super Agitene®	No visible effect	Total print removal	
3% Alconox® Detergent	No visible effect	No visible effect	
Deionized Water	No visible effect	No visible effect	
BIOACT® EC-7R™ Terpene Cleaner	No visible effect	Total print removal	
5% Salt (NaCl) Solution	No visible effect	No visible effect	

Shelf Life:

Shelf life is 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° 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.

Trademarks:

Alconox® is a registered trademark of Alconox Co.

BIOACT® is a registered trademark of Petroferm, Inc.

BradySleeve™ is a trademark of Brady Worldwide, Inc.

EC-7R™ is a trademark of Petroferm Inc.

Rust Veto® is a registered trademark of the E.F. Houghton & Co.

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

ASTM: American Society for Testing and Materials (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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