

BRADY B-642 TRANSLUCENT PVF FILM TAPE

TDS No. B-642

Effective Date: 03/26/2019

Description:

GENERAL

Print Technology: Dot matrix and thermal transfer

Material Type: Translucent polyvinylfluoride

Finish: Provided in a self-laminated format with a white printable zone and a translucent overlaminating area.

Adhesive: Permanent acrylic

APPLICATIONS

Brady B-642 is a thin tape with excellent flexibility for wrapping on small diameter wires. The polyvinylfluoride film provides good self-extinguishing properties and solvent resistance.

RECOMMENDED RIBBONS

Brady Series R5000 black ribbon for dot matrix printing.

Brady Series R4300 and R6200 black ribbons for thermal transfer 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:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total (excluding liner)	0.0012 inch (0.030 mm) 0.0010 inch (0.025 mm) 0.0022 inch (0.055 mm)
Adhesion to:	ASTM D 1000	
-Stainless Steel	20 minute dwell 24 hour dwell	30 oz/in (33 N/100 mm) 35 oz/in (38 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	12 oz/in (13 N/100 mm) 17 oz/in (19 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	21 oz/in (23 N/100 mm) 23 oz/in (25 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	21 oz (600 g)
Tensile Strength and Elongation	ASTM D 1000 -Machine Direction	10 lbs/in (175 N/100 mm), 90%
Flammability	ASTM D1000 -Average Burn Time	Less than 10 seconds
Application Temperature	Lowest application temperature to stainless steel	50°F (10°C)

Performance properties tested with white printable zone of B-642 printed with the Brady Series R5000 dot matrix ribbon, the Brady Series R4300 and the Brady Series R6200 thermal transfer ribbons. Samples wrapped around 0.080" OD TFE jacketed wire in a self-laminating format. All samples allowed to dwell 24 hours prior to testing.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at 248°F (120°C)	Slight discoloration at 120°C; no visible effect to print. Material discolored but functional up to 145°C.
Low Service Temperature	30 days at -94°F (-70°C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C), 95% R.H.	No visible effect

UV Light Resistance	ASTM G155, Cycle 1, without water spray 30 days in Xenon Arc Chamber	No visible effect
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	No visible effect
Salt Fog Resistance	ASTM B 117 30 days in 5% salt fog solution chamber	No visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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White printable zone of B-642 printed with the Brady Series R5000 dot matrix ribbon, the Brady Series R4300 and the Brady Series R6200 thermal transfer ribbons. Samples wrapped around 0.080" OD TFE wires in a self-laminating format. Testing consisted of 5 cycles of a 10 minute immersion in the specified test fluid followed by a 30 minute recovery period. All samples allowed to dwell 24 hours prior to testing.

CHEMICAL REAGENT	APPEARANCE OF MARKER
Methyl Ethyl Ketone	Slight unwrap
Isopropyl Alcohol	No visible effect
Mineral Spirits	No visible effect
JP-8 Jet Fuel	No visible effect
SAE 30 WT Oil	No visible effect
Mil 5606 Oil	No visible effect
Speedi Kut Cutting Oil 332	No visible effect
Gasoline	Slight unwrap
Rust Veto® 377	No visible effect
Skydrol® 500B-4	Slight unwrap
Super Agitene®	Slight unwrap
Deionized Water	No visible effect
3% Alconox® Detergent	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:

ASTM: American Society for Testing and Materials (U.S.A.)
Alconox® is a registered trademark of Alconox Co.
Polyken™ is a trademark of Testing Machines Inc.
Rust Veto® is a registered trademark of the E.F. Houghton & Co.
SAE: Society of Automotive Engineers (U.S.A.)
Skydrol® is a registered trademark of the Monsanto Company
Super Agitene® is a registered trademark of Graymills Corporation

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.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

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