

BRADY B-691 CLEAR OVERLAMINATING TAPE

TDS No. B-691
Effective Date: 08/20/2010

Description:

Brady B-691 is a biaxially oriented polypropylene film with an acrylic pressure sensitive adhesive.

Brady B-691 is recommended for use as a clear protective overlaminate for most standard Brady label materials. B-691 is not printable. B-691 is not recommended for outdoor use.

Brady B-691 has excellent clarity and flexibility.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Film -Adhesive -Total	0.0012 inch (0.030 mm) 0.0010 inch (0.025 mm) 0.0022 inch (0.055 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	25 oz/in (27 N/100 mm) 53 oz/in (58 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	18 oz (500 g)
Tensile Strength and Elongation	ASTM D 1000 -Machine Direction	26 lbs/in (455 N/100 mm), 130%
Dielectric Strength	ASTM D 1000	6800 volts

B-691 samples for Performance Properties were tested applied directly to aluminum panels and overlaminated over Brady B-619 white polyester. Samples allowed to dwell 24 hours at room temperature prior to testing.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at 175°F (80°C)	No visible effect. Overlaminated discolors and cracks at temperatures higher than 80°C
Low Service Temperature	30 days at -70°F (-40°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 dry 30 days in Q-Sun Xenon Test Chamber	Overlaminated cracking
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	Overlaminated severely degraded.
Salt Fog Resistance	ASTM B 117 30 days in 5% salt fog solution chamber	No visible effect.
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 500 g/arm (Fed. Std. 191A, Method 5306)	Material not worn through at 1000 cycles

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were tested applied directly to aluminum panels and overlaminated over Brady B-619 white polyester. Samples allowed to dwell 24 hours at room temperature prior to testing. Testing consisted of 5 cycles of 10 minute immersions in the specified chemicals followed by 30 minute recovery periods. Testing was conducted at room temperature.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE
Acetone	Slight adhesive swelling at perimeter
Isopropyl Alcohol	No visible effect
JP-8 Jet Fuel	No visible effect

SAE 20 WT Oil	No visible effect
Mil 5606 Oil	Slight red stain around perimeter
Speedi Kut Cutting Oil 332	No visible effect
Gasoline	Slight edge lift
Super Agitene®	No visible effect
Deionized Water	No visible effect
3% Alconox® Detergent	No visible effect

Product testing, customer feedback, and history of similar products, support a customer performance 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°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.
 Polyken™ is a trademark of Testing Machines Inc.
 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.)
 SAE: Society of Automotive Engineers (U.S.A.)
 All U.S. Conventional Units are mathematically derived from the S.I. (metric)
 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.

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.

WARRANTY

Brady products are sold with the understanding that the buyers will test them in actual use and determine for themselves their adaptability to their intended uses. Brady warrants to the buyers that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyers. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on Brady's part. Under no circumstances will Brady be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Brady's products.

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