

**BRADY B-7639 CLEAR POLYESTER OVERLAMINATING FILM**

TDS No. B-7639  
Effective Date: 11/23/2007

**Description:**

Brady B-7639 is a gloss clear polyester film with an acrylic pressure sensitive adhesive.

Brady B-7639 is used as an overlaminate for labels where resistance to UV light and weathering is needed.

**Details:**

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 - Substrate - Adhesive - Total Thickness	0.020 mm (0.0008 inch) 0.025 mm (0.0010 inch) 0.045 mm (0.0018 inch)
Adhesion to: -Stainless Steel	ASTM D 1000 72 hour dwell	41 N/100 mm (37oz/in)
Application Temperature	Lowest application temperature	10°C (50°F)
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 1000 g/arm (Fed. Std. 191A, Method 5306)	Material becomes slight matte after 1000 cycles

Performance properties are tested on Brady B-423 white polyester and Brady B-580 White polyvinyl chloride labels printed with Series R-6000 ribbons, applied on aluminium and overlaminated with B-7639. Samples allowed to dwell 24 hours at room temperature prior to testing.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	B-423/ B-7639 : 30 days at 120°C (248°F) B-580/ B-7639 : 30 days at 80°C (176°F)	Slight yellowing but functional Slight shrinkage of B-580
Low Service Temperature	30 days at -40°C (-40°F)	No visible effect
Humidity Resistance	30 days at 100°F (37°C), 95% R.H.	No visible effect
UV Resistance	7 months in UV light chamber	Slight yellowing
Weatherability	ASTM G 53 7 months in QUV	Slight yellowing
Salt Fog Resistance	ASTM B 117 30 days in 5% salt fog solution chamber	No visible effect
PERFORMANCE PROPERTY		CHEMICAL RESISTANCE

Chemical resistance is tested on Brady B-423 white polyester and Brady B-580 White polyvinyl chloride labels printed with Series R-6000 ribbons, applied on aluminium and overlaminated with B-7639. 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. After immersion, the samples were removed from the test fluid and rubbed 10 times with a cotton swab saturated with the test fluid. Testing was conducted at room temperature.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE B-423/B-7639	SUBJECTIVE OBSERVATION OF VISUAL CHANGE B-580/B-7639
Isopropyl Alcohol	No visible effect	No visible effect
Ethanol	No visible effect	No visible effect
Iso-octane	No visible effect	No visible effect
10% Sulfuric Acid Solution	No visible effect	No visible effect
5% Sodium Hydroxide Solution	No visible effect	No visible effect
Methyl Ethyl Ketone	No visible effect	Edges dissolved of B-580 material / Slight edge lifting of B-7639
Acetone	Slight edge lifting of B-7639	Edges dissolved of B-580 material / Slight edge lifting of B-7639
SAE-15W20 Motor Oil	No visible effect	No visible effect

Gasfuel Unleaded	No visible effect	Edges dissolved of B-580 material / Slight edge lifting of B-7639
Skydrol® 500B-4	No visible effect	No visible effect
MIL-H-5606 Oil	No visible effect	No visible effect
Soap 5%	No visible effect	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 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:**

ASTM: American Society for Testing and Materials (U.S.A.)  
 Fed. Spec.: United States Federal Specification (U.S.A.)  
 Skydrol® is a registered trademark of the Monsanto Company

**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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