

BRADY B-787 GLOSSY WHITE POLYVINYL FLUORIDE LABEL STOCK

TDS No. B-787
Effective Date: 02/25/2013

Description:

GENERAL

Print Technology: Thermal transfer
Material Type: Topcoated 2 mil white polyvinyl fluoride film
Finish: Gloss
Adhesive: Permanent acrylic

APPLICATIONS

Label applications where self-extinguishing properties are required.

RECOMMENDED RIBBONS

Brady Series R6000 Halogen Free black thermal transfer

SPECIAL FEATURES

B-787 meets the color requirements of FED-STD-595C Color 17875 White.
B-787 complies with the requirements of Boeing BMS 10-26 Type I, Grade A.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D1000 -Substrate -Adhesive -Total	0.0022 inch (0.056 mm) 0.0010 inch (0.025 mm) 0.0032 inch (0.081 mm)
Gloss	ASTM D523 60 Degree -Machine direction -Cross web direction	98 gloss units 97 gloss units
Opacity	ASTM E97 (D65/2)	1.00
Adhesion to: QQ-A-250/5 Aluminum Polyurethane painted steel	ASTM D1000 72 hour dwell dwell 72 hour dwell dwell	66 oz/inch (72 N/100 mm) 69 oz/inch (76 N/100 mm)
Tensile Strength and Elongation	ASTM D1000 -Machine direction	17.7 lbs/inch (310 N/100 mm), 133%
Dielectric Strength	ASTM D1000	6200 Volts
Flammability	BSS 7230 Method F1 (60 second vertical ignition) applied to fiberglass cargo liner material	Pass
Flammability	ASTM D1000 Average Burn Time	Less than 5 seconds

PERFORMANCE PROPERTY	ENVIRONMENTAL AGING
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Environmental Aging tested on B-787 printed with Series R6000 Halogen Free ribbon using the GlobalMark® printer. Samples laminated to aluminum panels and allowed to dwell 24 hours prior to testing.

TEST ENVIRONMENT	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at various temperatures ranging from 212°F (100°C) to 320°F (160°C)	No visible effect at 212°F (100°C). Moderate topcoat discoloration at 266°F (130°C). Severe discoloration and label lifting at 320°F (160°C).
Low Service Temperature	30 days at -94°F (-70°C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C) and 95% R.H.	No visible effect
UV Light Resistance	ASTM G 155, Cycle 1 Dry 30 days in Xenon Arc Fadeometer	No visible effect

Weathering Resistance	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	Slight topcoat color fade
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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Chemical Resistance tested on B-787 printed with Series R6000 Halogen Free ribbon using the GlobalMark® printer. Samples laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Test conducted at room temperature. Testing consisted of immersions in the specified test fluids for the stated durations. Immediately after removal from test fluid samples were rubbed 10 times with cotton swab saturated with test fluid. Results are the same without and with rub unless stated otherwise.

CHEMICAL REAGENT	IMMERSION DURATION	EFFECT TO LABEL STOCK	EFFECT TO R6000 HALOGEN FREE PRINT
Deionized Water	8 Hours	No visible effect	No visible effect
Jet A Jet Fuel	1 Hour	No visible effect	No visible effect
TT-S-735 Type III *	1 Hour	No visible effect	No visible effect
MIL-PRF-7808 Oil	24 Hours	Slight label darkening	No visible effect
MIL-PRF-7808 Oil at 225°F (107°C)	2 Hours	Slight label darkening	Moderate print removal with rub
Skydrol® LD4 Hydraulic Fluid	24 Hours	Slight label color fade	Complete print removal with rub

* TT-S-735 Type III is 70% 2,2,4-trimethylpentane / 30% toluene

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°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:

ASTM: American Society for Testing and Materials (U.S.A.)

Globalmark® is a registered trademark of Brady Worldwide, Inc.

S. I.: International System of Units

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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