Brady B-483/B-7552 Print and Protect

Description:

GENERAL

Print technology: Thermal Transfer
Material type: White polyester
Finish: Glossy
Adhesive: Permanent rubber based

Material type overlaminating material : Clear polyester
Finish overlaminating material: Glossy
Adhesive overlaminating material: permanent acrylic

APPLICATION

Designed for applications where the highest demands on durability and/or chemical resistance is required. The PNP-construction B-483/B-7552 is designed for high adhesion to textured metals, powder coated surfaces and low surface energy plastics.

RECOMMENDED RIBBONS

Brady Series R-6000 or R-4900 black thermal transfer ribbons and Series R-4400 coloured thermal transfer ribbons.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	**ASTM D 1000**	
White Polyester	- Substrate	0,051mm (0.002inch)
	- Adhesive	0,051mm (0.002inch)
Overlaminating polyester	- Substrate	0,051mm (0.002inch)
	- Adhesive	0,023mm (0,0009inch)
	- Total	0,176mm (0.0069inch)
Adhesion to:	**ASTM D 1000**	
- stainless steel	20 minute dwell time	169 N/100mm (155oz/inch)
	24 hour dwell time	174 N/100mm (160oz/inch)
- PVC	20 minute dwell time	158 N/100mm (145oz/inch)
	24 hour dwell time	166 N/100mm (152oz/inch)
- Textured ABS	20 minute dwell time	55 N/100mm (60oz/inch)
	24 hour dwell time	54 N/100mm (59oz/inch)
- Polypropylene	20 minute dwell time	140 N/100mm (153oz/inch)
	24 hour dwell time	143 N/100mm (156oz/inch)
- Painted enamel	20 minute dwell time	157 N/100mm (144oz/inch)
	24 hour dwell time	162 N/100mm (149oz/inch)
- Powder Coated Metal	20 minute dwell time	111 N/100mm (102oz/inch)
	24 hour dwell time	113 N/100mm (104oz/inch)
Tack	**ASTM D 2979** Polyken™ Probe Tack 0,5second dwell time	1122g (39oz)

PRODUCT INFORMATION SHEET

Preformance properties tested on B-483printed using ribbon R-6000 on a Bradyprinter™ BP-PR600 PLUS and overlaminated with B-7552. Printed samples of B-483 overlaminated with B-7552 were laminated to aluminum before exposure to the indicated environmental condition.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
Long Term High Service Temperature	30 days at 120°C (248°F)	No visible effect
Long Term Low Service Temperature	30 days at –40°C (-40°F)	No visible effect
Humidity Resistance	30 days at 37°C (100°F), 95% R.H.	No visible effect
UV Resistance	30 days in Q-Sun Xe-1, 0,35W/m²@340nm, black temperature 63°C	Yellowing of the label construction Print still legible
Weathering Resistance	ASTM G53 (30 days QUV – UV-A light)	Yellowing of the label construction Print still legible

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

Samples of B-483 printed with Series R-6000 ribbon using the Bradyprinter™BP-PR600 PLUS and overlaminated with B-7552. Tests were conducted after 24 hours dwell time. Testing was conducted at room temperature and consisted of 30minutes immersion in the specified test fluid. After immersion, the samples were removed from the test fluid and visual inspected.

CHEMICAL REAGENT	OBSERVATION OF VISUAL CHANGE after REMOVAL from Test Fluid
Methyl Ethyl ketone	Very slight adhesive ooze
Toluene	No visible effect
Isopropyl Alcohol	No visible effect
MIL 5606-oil	No visible effect
Skydrol 500B-4	No visible effect
JP-4 Jet Fuel	Very slight adhesive ooze
ASTM#3 Oil	No visible effect
N-Hexane	No visible effect
Acetone	Edges of the laminate are coming loose
DOT-4 break Fluid	No visible effect
Gasoline	No visible effect
Diesel	No visible effect
Alcohol Mixture*	No visible effect
De-ionized Water	No visible effect
NaCl (10%)	No visible effect
H_2SO_4 (37%)	No visible effect

* Alcohol Mixture: 50% Methyl alcohol, 30% Ethyl alcohol, 20% Water

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)
SAE: Society of Automotive Engineers (U.S.A)
BradyPrinter™ is a trademark of Brady Worldwide, Inc.
Polyken™ is a trademark of Testing Machines Inc.
Skydrol® is a registered trademark of the Monsanto Company
S.I.: International System of 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.

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.**