



Technical Data Sheet

Effective Date: 16-Jan-2017

BRADY B-7543P SURFACE PRINTED POLYESTER WITHOUT OVERLAMINATE

Description:

GENERAL

Brady B-7543P is a surface printed white polyester with a permanent acrylic pressure sensitive adhesive without overlaminate.

SPECIAL FEATURES

B-7543P is used for pipe markers and signs.

B-7543P gives excellent adhesion to low surface energy surfaces such as polypropylene and ABS, as well as on most powder coatings.

ROHS Environmental Compliance

Brady B-7543P is compliant to RoHS2 directive 2011/65/EU.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total	0.050 mm 0.020 mm 0.070 mm
Adhesion to:	ASTM D 1000	
-Stainless Steel	20 minute dwell 24 hour dwell	69 N/100 mm 77 N/100 mm
-Polypropylene	20 minute dwell 24 hour dwell	55 N/100 mm 62 N/100 mm
-Smooth ABS	20 minute dwell 24 hour dwell	74 N/100 mm 92 N/100 mm
-Textured ABS	20 minute dwell 24 hour dwell	14 N/100 mm 21 N/100 mm
-Powder Coated Metal	20 minute dwell 24 hour dwell	76 N/100 mm 81 N/100 mm
Drop Shear	PSTC-7	38 hours
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	225 g

Performance properties tested on digitally printed B-7543P material. Printed samples were laminated to aluminium and allowed to dwell 24 hours before exposure to the indicated environments.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
High service temperature	30 days at 120°C	No visible effect
Low service temperature	30 days at -40°C	No visible effect
Minimum application temperature		+2°C
Abrasion resistance	Taber Abraser, CS-10 grinding wheels 250g/arm, 100 cycles 500g/arm, 100 cycles	Slight fading Slight to moderate fading
Humidity resistance	30 days at 37°C and 95% R.H.	No visible effect

B-7543P can only be used indoor, based on UV resistance testing in the Q-Sun Xenon Test Chamber Model Xe-3 (Daylight Filter, Irradiance 0.35 W/m², wavelength 340nm, continuous light at 63°C black panel temperature) and on weatherability testing in the QUV Accelerated Weathering Tester Model QUV/se, according to ASTM G154, Cycle 1.

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
Digitally printed samples are laminated to aluminium panels and allowed to dwell 24 hours prior to testing. Tests conducted at room temperature. Testing consisted of 5 cycles of 10 minute immersions in the specified test fluid, followed by 30 minute recovery periods. After final immersion, samples rubbed 10 times with cotton swab saturated with test fluid.	

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE	
	EFFECT TO LABEL STOCK EFFECT TO PRINT	EFFECT TO PRINT WITH RUB
Gasoline	printing destroyed	printing destroyed
Alcohol mixture	nve	nve
Toluene	printing destroyed after first immersion	printing destroyed
Methyl Ethyl Ketone	printing destroyed after first immersion	printing destroyed
Isopropyl Alcohol	nve	nve
Acetone	printing destroyed after first immersion	printing destroyed
Diesel	nve	nve
n-Hexane	nve	nve
Iso-octane	nve	nve
Sulfuric acid solution (10%)	nve	nve
Sodium Chloride (10%)	nve	nve
Water distilled	nve	printing destroyed

*Alcohol mixture is a mixture of 50% ethanol, 30% methanol and 20% distilled water

Nve = No visible effect

Shelf Life and Fitness for Use:

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*. 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:

Polyken™ is a trademark of Testing Machines Inc.

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

PSTC: Pressure Sensitive Tape Council (U.S.A.)

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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