

BRADY B-7594 THERMAL TRANSFER PRINTABLE GLOSSY WHITE POLYPROPYLENE

TDS No. B-7594
Effective Date: 05/15/2012

Description:

GENERAL

Brady B-7594 is a white glossy, thermal transfer printable polypropylene film with a permanent pressure sensitive adhesive.

APPLICATIONS

Brady B-7594 is a high performance material designed to perform on various surfaces.

RECOMMENDED RIBBONS

Recommended ribbons are Brady Series R7961, R7962, and R6000 Halogen Free for optimum print performance.

SPECIAL FEATURES

Brady B-7594 is a UL Recognized component when printed with Brady Series R7961, R7962 and R6200. See UL file MH 17388 for specific details.

ROHS Environmental Compliance

Brady B-7594 is RoHS compliant using EU Directive 2002/95/EC.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 - Substrate - Adhesive - Total	 0,067 mm (0.0026 in) 0,013 mm (0.0005 in) 0,080 mm (0.0031 in)
Adhesion to:	ASTM D 1000	
- Stainless Steel	20 minute dwell 24 hour dwell	54 N/100 mm (50 oz/in) 63 N/100 mm (58 oz/in)
- Polypropylene	20 minute dwell 24 hour dwell	48 N/100 mm (44 oz/in) 60 N/100 mm (55 oz/in)
- Textured ABS	20 minute dwell 24 hour dwell	31 N/100 mm (28 oz/in) 41 N/100 mm (37 oz/in)
- Smooth ABS	20 minute dwell 24 hour dwell	47 N/100 mm (43 oz/in) 61 N/100 mm (56 oz/in)
Tack	ASTM D 2979 Polyken™ Probe Tack (1 second dwell, 1 cm/sec Separation)	580 g (20.5 oz)
Drop Shear	PSTC-7	2 hours

Performance properties tested on B-7594 printed with R7961 and R7962 on a Bradyprinter™ 300X Thermal Transfer printer. Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environmental conditions.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
Long Term High Service Temperature	30 days at 100° C	N.V.E.
Low Service Temperature	30 days at -20° C	N.V.E.
UV Light Resistance	30 days in UV chamber	Moderate chalking of topcoat. Text stays completely legible. This material is not designed for outdoor use.
Weatherability	30 days in QUV (ASTM G 53)	Moderate chalking of topcoat.

		Text stays completely legible. This material is not designed for outdoor use.
Humidity Resistance	30 days at 38° C and 95% R.H.	N.V.E.
Abrasion Resistance	Taber Abrasion, CS-10 grinding wheels, 250g/arm R7961 R7962	70 Cycles: text faded but still legible 100 Cycles: text faded moderate but still legible 100 Cycles: no visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were printed with thermal transfe ribbons R7961 and R7962 using BradyPrinter™ 300X. Samples laminated to aluminum panels and allowed to dwell for 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.

	SUBJECTIVE OBSERVATION OF VISUAL CHANGE			
	R7961		R7962	
	WITHOUT RUB	WITH RUB	WITHOUT RUB	WITH RUB
Isopropanole	1	4	5	NA
Iso-octane	1	1	1	1
Toluene	2*	5	2*	5
Acetone	4	5	3	5
Methyl Ethyl Ketone	3	5	1	5
n-Hexane	1	1	1	1
Alcohol Mixture	1	1	1	3
Sulphuric Acid (10%)	1	1	1	1
NaOH (10%)	1	2	1	2
Skydrol® R 500 B 4	4	5	2	5
Diesel	1	1	1	2
Water	1	2	1	2
NaCl (10%)	1	1	1	1
Petrol	1	5	2	3

Rating scale:

1= no visible effect

2= slight smear or print removal; detectable but minimal smear
3= moderate smear or print removal (print still legible)
4= severe smear or print removal
5= complete print and/or topcoat removal
* = edge lift

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:

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
ASTM: American Society for Testing and Materials (U.S.A.)
PSTC: Pressure Sensitive Tape Council (U.S.A.)
UL: Underwriters Laboratories Inc. (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.

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

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