

BRADY B-449 THERMAL TRANSFER PRINTABLE REMOVABLE POLYPROPYLENE LABEL STOCK

TDS No. B-449
 Effective Date: 06/11/2009

Description:

GENERAL

Print Technology: Thermal Transfer
 Material Type: White polypropylene
 Finish: Matte white
 Adhesive: Removable acrylic

APPLICATIONS

Temporary labeling applications requiring solvent resistance and print performance coupled with clean removability.

RECOMMENDED RIBBONS

Brady Series R4300 and R6200

REGULATORY

Brady B-449 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Total (substrate and adhesive)	0.0044 inch (0.112 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	27 oz/inch (30 N/100 mm) 28 oz/inch (31 N/100 mm)
-Glass	20 minute dwell 24 hour dwell	23 oz/inch (25 N/100 mm) 25 oz/inch (31 N/100 mm)
-Aluminum	20 minute dwell 24 hour dwell	25 oz/inch (27 N/100 mm) 27 oz/inch (30 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	27 oz/inch (30 N/100 mm) 29 oz/inch (32 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack (1 second dwell, 1 cm/sec separation)	24 oz (700 g)
Tensile Strength and Elongation	ASTM D 1000 -Machine	24 lbs/inch (420 N/100 mm), 90%

Performance properties tested on B-449 printed with Series R4300 and R6200 ribbons on a BradyPrinter™ THT 300MVP 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 METHOD	TYPICAL RESULTS
Long Term High Service Temperature	30 days at various temperatures	No visible effect to label at 194°F (90°C), , surface cracks in label at 212°F (100°C), slight discoloration at 230°F (110°C), severe discoloration at 248°F (120°C).
Low Service Temperature	30 days at -40°F (-40°C) 30 days at -94°F (-70°C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C) and 95% Relative Humidity	No visible effect
Weatherability ¹	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	Topcoat becomes chalky
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 500 g/arm (Fed. Std. 191A, Method 5306)	Appearance to print after 100 cycles: R4300: moderate to severe print removal;

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