

High temperature label coated with amber polyimide topcoat, high temperature acrylic pressure sensitive adhesive on 1.3 mil aluminum foil

TDS No. B-8095
Effective Date: 07/16/2010

Description:

Features:

Designed for general asset identification in high temperature applications.

Recommended Thermal Transfer Ribbons & Printers:

Brady R4300 series
BradyPrinter™ model X or X-Plus series

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total	0.0019 inch (0.0483 mm) 0.0010 inch (0.0254 mm) 0.0029 inch (0.0736 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 -20 minute dwell -24 hour dwell	118 oz/inch (32.8 N/25 mm) 121 oz/inch (33.6 N/25 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	46.1 oz (1307g)
Shear Adhesion Failure Temperature (SAFT)	ASTM D4498-95 (25mm x 25mm x 1 Kg)	>392°F (>200°C)

High temperature testing performed on labels printed with Series R4300 on BradyPrinter™ Model 300X+ thermal transfer printer.
Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environments.

PHYSICAL PROPERTIES	TEST METHODS	RESULTS
High Temperature Resistance	5 minutes @ 536°F (280°C) 2 hours @ 518°F (270°C)	No visible effect to label at 280°C, label discolors slightly at 300°C but label still functional. At 320°C label still functional but slightly discolored and adhesive discolored at label edge. No visible effect to label at 260°C, adhesive brown at edge of label at 280°C
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 500 g/arm (Fed. Std. 191A, Method 5306)	Print legible to 150 cycles

B-8095 is not recommended for extended outdoor use or high density small label applications.

B-8095 recommended maximum application temperature is 570°F (300°C)

Trademarks:

ASTM: American Society for Testing and Materials (U.S.A.)
All S.I. Units (metric) are mathematically derived from the U.S. Conventional Units
BradyPrinter™ is a trademark of Brady Worldwide, Inc.
Polyken™ is a trademark of Testing Machines Inc.

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

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.

Copyright 2016 Brady Corporation Asia Pte. Ltd. | All Rights Reserved
Material may not be reproduced or distributed in any form without written permission.

Brady Asia | 1 Kaki Bukit Crescent | Singapore 416236 | Singapore | Tel: 65 6477.7261 | Fax: 65 6748.7248