

B-8008 OPTICALLY CLEAR GAP FILLER

TDS No. B-8008

Effective Date: 11/13/2017

Description:

B-8008 is a new material filling in the air gap between the screen and protective cover of display consumer electronics. This configuration will improve the optical performance of LCD with excellent reworkability.

Features:

- § Excellent optically clear
- § Excellent reliability (high or low temperature, humidity, light irradiation)
- § Re-workable
- § Shock absorption
- § Compliant with RoHS
- § Halogen Free
- § Very low VOC; non-solvent based gel
- § High yield assembly process

Applications:

Flat Panel Display (LCD, Touch Panel etc)

Compliance:

RoHS compliant as per EU Directive 2002/95/EC

Details:

PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	- Filler - Liner	0.2 – 1.0 mm 0.050 mm
<i>Peel Adhesion to:</i> - Glass	ASTM D1000 (with modification) 20 minute dwell 24 hour dwell	9 oz/in 12 oz/in
Hardness	ASTM D5 Penetration (1/10 mm)	60
<i>Transmittance</i>	ASTM D1003 Using thickness of 0.3mm - 380 nm - 780 nm	94% 94%
<i>Refractive Index</i>	ASTM D542 25degC, 589 nm	1.41
Dielectric Strength	ASTM D149	16 kV/mm
Impact Absorption	Ball Drop Test	See Appendix
Heat Evaporated Gas (Weight Loss)	TGA (120 degree, 30 min)	290 ug/g
Low Temperature Aging	-40 degC for 500 hours	No change in adhesion, transmittance and refractive index
High Temperature Aging	80 degC for 500 hours	No change in adhesion, transmittance and refractive index
Humidity Aging	37degC/ 95% RH for 500 hours	No change in adhesion, transmittance and refractive index

Shelf Life:

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.)

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 2018 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