

B-8008 OPTICALLY CLEAR GAP FILLER

TDS No. B-8008
Effective Date: 01/16/2012

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
Peel Adhesion to: - 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
Transmittance	ASTM D1003 Using thickness of 0.3mm - 380 nm - 780 nm	94% 94%
Refractive Index	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

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.

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