

Cookson Group Plaskon® SMT-B-1LV Epoxy Molding Compound for PBGAs (discontinued **)

Category : Polymer , Thermoset , Epoxy , Epoxy Molding Compound

Material Notes:

Test specimens were transfer molded and post cured 4 hours at 175°C. An epoxy molding compound optimized specifically for grid arrays (BGA/LGA). Using an improved optimized filler system, it provides a lower viscosity with higher flow characteristics than SMT-B-1. Minimal warpage (after post bake and solder treatment); Outstanding high temperature flexural strength; Low stress; Improved wire sweep performance (low viscosity)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cookson-Group-Plaskon-SMT-B-1LV-Epoxy-Molding-Compound-for-PBGAs-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Density	1.88 g/cc	0.0679 lb/in ³	
Viscosity	5000 cP @Temperature 175 °C	5000 cP @Temperature 347 °F	Shimadzu Viscosity, 1000 psi
Spiral Flow	130 cm	51.2 in	175°C/1000 psi

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	
Flexural Strength	70.0 MPa	10200 psi	
Flexural Modulus	12.5 GPa	1810 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 µm/m-°C @Temperature 20.0 °C	7.78 µin/in-°F @Temperature 68.0 °F	
CTE, linear, Transverse to Flow	58.0 µm/m-°C @Temperature 20.0 °C	32.2 µin/in-°F @Temperature 68.0 °F	
Thermal Conductivity	0.700 W/m-K	4.86 BTU-in/hr-ft ² -°F	
Glass Transition Temp, Tg	225 °C	437 °F	
Flammability, UL94	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	
	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.80e+16 ohm-cm	1.80e+16 ohm-cm	
Dielectric Constant	4.0	4.0	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	28.0 kV/mm	711 kV/in	

Processing Properties	Metric	English	Comments
Processing Temperature	170 - 185 °C	338 - 365 °F	Molding temperature

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