

Epoxy Technology EPO-TEK® B912-8 Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Product Description: A single component, thermally and electrically conductive, epoxy adhesive designed for semiconductor die attach and circuit assembly applications. Its unique features are a pot-life of several days, low temperature cure and syringe dispensing rheology. It can be used for electrical connections when bonding chips, SMDs, PCBs and substrates. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-B912-8-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.92 g/cc	2.92 g/cc	
Particle Size	<= 30 µm	<= 30 µm	
Viscosity	11000 - 18500 cP @Temperature 23.0 °C	11000 - 18500 cP @Temperature 73.4 °F	20 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	71	71	
Tensile Modulus	1.57 GPa	228 ksi	Storage
Shear Strength	6.76 MPa	980 psi	Lap
	>= 11.7 MPa	>= 1700 psi	Die

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.20 W/m-K	8.33 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	175 °C	347 °F	Continuous
	275 °C	527 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 60.0 °C	>= 140 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp -10–200°C @ 20°C/Min
Decomposition Temperature	340 °C	644 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 0.00020 ohm-cm	>= 0.00020 ohm-cm	

Chemical Properties	Metric	English	Comments
Ionic Impurities - Na (Sodium)	23 ppm	23 ppm	
Ionic Impurities - K (Potassium)	8.0 ppm	8.0 ppm	
Ionic Impurities - Cl (Chloride)	80 ppm	80 ppm	

Processing Properties	Metric	English	Comments
Pot Life	7200 min	7200 min	
Shelf Life	12.0 Month @Temperature 25.0 °C	12.0 Month @Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Silver	before cure
Consistency	Smooth paste	
Ionic Impurities NH4	41 ppm	
Number of Components	Single	
Weight Loss	1.07%	300°C

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