

Epoxy Technology EPO-TEK® EE149-6 Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: A single component, silver-filled, B-stageable epoxy designed for semiconductor flip chip packaging or hybrid micro-electronic substrate attach or lid-sealing. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-EE149-6-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.27 g/cc	3.27 g/cc	
Particle Size	<= 20 µm	<= 20 µm	
Viscosity	2000 - 4000 cP @Temperature 23.0 °C	2000 - 4000 cP @Temperature 73.4 °F	100 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	74	74	
Tensile Modulus	3.77 GPa	547 ksi	Storage
Shear Strength	3.78 MPa	548 psi	Lap
	>= 35.2 MPa	>= 5100 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	34.0 µm/m-°C	18.9 µin/in-°F	Below Tg
	113 µm/m-°C	62.8 µin/in-°F	Above Tg
Thermal Conductivity	0.980 W/m-K	6.80 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	200 °C	392 °F	Continuous
	300 °C	572 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 130 °C	>= 266 °F	Dynamic Cure 20–300°C /ISO 25 Min; Ramp -10–300°C @ 20°C/Min
Decomposition Temperature	380 °C	716 °F	Degradation Temperature

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.00050 ohm-cm	<= 0.00050 ohm-cm	

Chemical Properties	Metric	English	Comments
Ionic Impurities - Na (Sodium)	8.0 ppm	8.0 ppm	
Ionic Impurities - K (Potassium)	5.0 ppm	5.0 ppm	
Ionic Impurities - Cl (Chloride)	4.0 ppm	4.0 ppm	

Processing Properties	Metric	English	Comments
Cure Time	10.0 min	0.167 hour	
	@Temperature 70.0 °C	@Temperature 158 °F	
Pot Life	36000 min	36000 min	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Descriptive Properties	Value	Comments
Color	Silver	
Consistency	Smooth paste	
Ionic Impurities NH4	10 ppm	
Number of Components	Single	
Thixotropic Index	4.7	
Weight Loss	0.05%	250°C
	0.16%	300°C

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