

Epoxy Technology EPO-TEK® OE100-T High Temperature Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy , High Temperature

Material Notes:

Material Description: A two component, high Tg, high temperature grade epoxy designed for semiconductor, underfill, hard-disk drive and hybrid micro-electronics packaging applications. The epoxy can also be used for adhesive and sealing applications in electronics, optical, and medical devices. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OE100-T-High-Temperature-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	Part B
	1.12 g/cc	1.12 g/cc	Part A
Viscosity	45000 - 70000 cP	45000 - 70000 cP	50 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	87	87	
Tensile Modulus	1.68 GPa	244 ksi	Storage
Shear Strength	>= 13.8 MPa	>= 2000 psi	Lap
	>= 23.4 MPa	>= 3400 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	43.0 µm/m-°C	23.9 µin/in-°F	Below Tg
	165 µm/m-°C	91.7 µin/in-°F	Above Tg
Maximum Service Temperature, Air	250 °C	482 °F	Continuous
	350 °C	662 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 100 °C	>= 212 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min
Decomposition Temperature	468 °C	874 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Refractive Index	@Wavelength 589 nm	@Wavelength 589 nm	
Transmission, Visible	88 %	88 %	Spectral
	@Wavelength 800 nm	@Wavelength 800 nm	
	>= 94 %	>= 94 %	Spectral
	@Wavelength 880 - 1600 nm	@Wavelength 880 - 1600 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	
Dielectric Constant	3.08	3.08	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0030	0.0030	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	1.00 min	0.0167 hour	minimum
	@Temperature 150 °C	@Temperature 302 °F	
	30.0 min	0.500 hour	minimum
	@Temperature 80.0 °C	@Temperature 176 °F	
Pot Life	180 min	180 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Amber	Part B
	White	Part A
Consistency	Pourable paste	
Mix Ratio By Weight	10:1	
Number of Components	Two	
Weight Loss	0.38%	200°C
	0.5%	250°C

Descriptive Properties	Value	Comments
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