

Epoxy Technology EPO-TEK® 320-LV Optically Opaque Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: A two component, optically opaque epoxy adhesive designed for semiconductor and PCB applications in optoelectronic instrumentation and assemblies. A lower viscosity version of EPO-TEK® 320 that can be poured, potted or cast into shape. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-320-LV-Optically-Opaque-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.870 g/cc	0.870 g/cc	Part B
	1.20 g/cc	1.20 g/cc	Part A
Viscosity	350 - 650 cP	350 - 650 cP	100 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	
Tensile Modulus	1.84 GPa	266 ksi	Storage
Shear Strength	11.6 MPa	1680 psi	Lap
	>= 35.2 MPa	>= 5100 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	48.0 µm/m-°C	26.7 µin/in-°F	Below Tg
	170 µm/m-°C	94.4 µin/in-°F	Above Tg
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	>= 55.0 °C	>= 131 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min
Decomposition Temperature	397 °C	747 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Transmission, visible	@Wavelength 300 - 2500 nm	@Wavelength 300 - 2500 nm	Spectral

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 2.00e+9 ohm-cm	>= 2.00e+9 ohm-cm	
Dielectric Constant	11.35	11.35	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.283	0.283	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Pot Life	60 min	60 min	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Black	Part A
	Clear/Colorless	Part B
Consistency	Smooth pourable liquid	
Mix Ratio By Weight	10:2	
Number of Components	Two	
Weight Loss	0.26%	200°C
	0.52%	250°C
	1.02%	300°C

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