

Epoxy Technology EPO-TEK® OM125 Optical Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Product Description: EPO-TEK® OM125 is two component, high Tg, optical epoxy designed for bonding multi-mode fiber optic connectors.

Advantages & Application Notes: Color coded blue for easy operator ID on the manufacturing floor. A reliability test report is available when using MM fibers and MT ferrule connectors. It is compatible with Telcordia GR1221 and GR326. Versatility in curing from 23°C to 80°C. When used in optical beam pathway, a non-blue version is available. A low viscosity allows for wicking and capillary process methods. Can also be used for potting and encapsulation. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OM125-Optical-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.990 g/cc	0.990 g/cc	Part B
	1.16 g/cc	1.16 g/cc	Part A
Viscosity	2400 - 5400 cP	2400 - 5400 cP	50 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	
Tensile Modulus	2.67 GPa	388 ksi	Storage
Shear Strength	5.57 MPa	808 psi	Lap
	>= 46.9 MPa	>= 6800 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 µm/m-°C	15.6 µin/in-°F	Below Tg
	114 µm/m-°C	63.3 µin/in-°F	Above Tg
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	>= 80.0 °C	>= 176 °F	Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min
Decomposition Temperature	367 °C	693 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
Transmission, Visible	>= 96 %	>= 96 %	Spectral
	@Wavelength 1500 nm	@Wavelength 1500 nm	
	>= 97 %	>= 97 %	Spectral
	@Wavelength 800 nm	@Wavelength 800 nm	
	>= 98 %	>= 98 %	Spectral
	@Wavelength 1000 nm	@Wavelength 1000 nm	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 2.00e+13 ohm-cm	<= 2.00e+13 ohm-cm	
Dielectric Constant	3.9	3.9	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	0.0188	0.0188	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	Minimum Bond Line
	@Temperature 80.0 °C	@Temperature 176 °F	
	120 min	2.00 hour	Minimum Bond Line
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 min	24.0 hour	Minimum Bond Line
	@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	Blue	Part B
	Clear/Colorless	Part A
Consistency	Pourable liquid	
Mix Ratio By Weight	10:3	
Number of Components		

Descriptive Properties	Two Value	Comments
Weight Loss	0.25%	200°C
	0.56%	250°C
	1.43%	300°C

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