

Epoxy Technology EPO-TEK® OG159-2 UV Cure Optical Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Material Description: A single component, high viscosity, UV curable epoxy adhesive designed for sealing glass plates together in the LCD/OLED/display industry. It contains 1mil glass beads for bond line control. Common applications include semiconductor, electro-optics, fiber optic, and scientific/OEM. It can be applied by screen printing or dispensing techniques. It is capable of coating, adhering, sealing, and encapsulating devices. Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OG159-2-UV-Cure-Optical-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	
Particle Size	<= 30 µm	<= 30 µm	
Viscosity	100000 - 140000 cP @Temperature 23.0 °C	100000 - 140000 cP @Temperature 73.4 °F	2.5 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	69	69	
Tensile Modulus	2.35 GPa	341 ksi	Storage
Shear Strength	>= 11.7 MPa	>= 1700 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 µm/m-°C	32.2 µin/in-°F	Below Tg
	240 µm/m-°C	133 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	>= 30.0 °C	>= 86.0 °F	Post-Cure Dynamic Scan 20200°C; Ramp -40200°C @ 20°C/Min
Decomposition Temperature	443 °C	829 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
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Optical Properties	1.5879 Metric	1.5879 English	Comments
	@Wavelength 589 nm	@Wavelength 589 nm	
Transmission, Visible	>= 90 % @Wavelength 400 nm	>= 90 % @Wavelength 400 nm	Spectral
	>= 98 % @Wavelength 580 - 2000 nm	>= 98 % @Wavelength 580 - 2000 nm	Spectral

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

Descriptive Properties	Value	Comments
Color	White	before cure
Consistency	Thixotropic paste	
Number of Components	Single	
Weight Loss	0.13%	200°C
	0.44%	250°C
	0.97%	300°C

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