

# EPO-TEK® OG159-2

Epoxy; Epoxide  
Epoxy Technology Inc.

Message:

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.

General Information		
Features	High Viscosity	
	Thixotropic	
	UV Curable	
Uses	Adhesives	
	Coating Applications	
	Electrical/Electronic Applications	
	LCD Applications	
	LEDs	
	Seals	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Processing Method	Encapsulating	
Physical	Nominal Value	Unit
Particle Size	< 30.0	µm
Degradation Temperature	443	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	2.35	GPa
Weight Loss on Heating		
200°C	0.13	%
250°C	1.4	%
300°C	0.97	%
Thermal	Nominal Value	Unit
Glass Transition Temperature <sup>1</sup>	> 30.0	°C

CLTE - Flow		
-- <sup>2</sup>	5.8E-5	cm/cm/°C
-- <sup>3</sup>	2.4E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index		
-- <sup>4</sup>	1.568	
-- <sup>5</sup>	1.572	
Transmittance (580 to 2000 nm)	> 98.0	%
Thermoset	Nominal Value	Unit
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	White	
Density	1.18	g/cm <sup>3</sup>
Viscosity <sup>6</sup> (23°C)	100 to 140	Pa·s
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	69	
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	589 nm (uncured)	
5.	589 nm (cured)	
6.	2.5 rpm	

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#### Recommended distributors for this material

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