

## Epoxy Technology EPO-TEK® OG142 UV Cure Optical Epoxy

Category : Polymer , Thermoset , Epoxy

### Material Notes:

Material Description: A single component, UV curable epoxy, designed for adhesive, sealing, and encapsulating applications found in semiconductor, electro-optics, fiber optics, medical, and scientific/OEM industries. It is a high Tg epoxy, ideal for LCD and OLED applications. Information Provided by Epoxy Technology

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxy-Technology-EPO-TEK-OG142-UV-Cure-Optical-Epoxy.php](http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OG142-UV-Cure-Optical-Epoxy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	
Viscosity	9000 - 15000 cP	9000 - 15000 cP	20 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Modulus	1.53 GPa	222 ksi	Storage
Shear Strength	>= 9.38 MPa	>= 1360 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 µm/m-°C	32.2 µin/in-°F	Below Tg
	156 µm/m-°C	86.7 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	>= 95.0 °C	>= 203 °F	Post-Cure Dynamic Scan 20200°C; Ramp -40200°C @ 20°C/Min
Decomposition Temperature	421 °C	790 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
Refractive Index	1.5692	1.5692	
	@Wavelength 589 nm	@Wavelength 589 nm	

Optical Properties <i>Transmission, Visible</i>	Metric <i>&gt;= 92 %</i>	English <i>&gt;= 92 %</i>	Comments <i>Spectral</i>
	@Wavelength 440 - 620 nm	@Wavelength 440 - 620 nm	
	>= 97 %	>= 97 %	
	@Wavelength 660 - 1640 nm	@Wavelength 660 - 1640 nm	Spectral

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

Descriptive Properties	Value	Comments
Color	Cloudy/Colorless	before cure
Consistency	Pourable liquid	
Number of Components	Single	
Weight Loss	0.2%	200°C
	0.49%	250°C
	1.06%	300°C

## Contact Songhan Plastic Technology Co.,Ltd.

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