

## Epoxy Technology EPO-TEK® OG198-54 UV Cure Optical Epoxy

Category : Polymer , Thermoset , Epoxy

### Material Notes:

Material Description: Single component, low viscosity, high Tg, UV curable epoxy. Active alignment of optics, securing fibers into V-grooves and fiber pigtailed are a few of its common applications. It can also be used for medical, hybrid and semiconductor device assembly. It is a "dual" cure chemistry, performance will be enhanced by a thermal post-cure. Replacement version of EPO-TEK® OG198-50. Information Provided by Epoxy Technology

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxy-Technology-EPO-TEK-OG198-54-UV-Cure-Optical-Epoxy.php](http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OG198-54-UV-Cure-Optical-Epoxy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	
Viscosity	200 - 450 cP	200 - 450 cP	100 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Modulus	3.10 GPa	449 ksi	Storage
Shear Strength	>= 23.4 MPa	>= 3400 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	74.0 µm/m-°C	41.1 µin/in-°F	Below Tg
	145 µm/m-°C	80.6 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	>= 131 °C	>= 268 °F	Post-Cure Dynamic Scan 20200°C; Ramp -40200°C @ 20°C/Min
Decomposition Temperature	369 °C	696 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
Refractive Index	1.5048	1.5048	

Optical Properties	@Wavelength 589 nm Metric	@Wavelength 589 nm English	Comments
Transmission, Visible	>= 97 %  @Wavelength 460 - 1680 nm	>= 97 %  @Wavelength 460 - 1680 nm	Spectral

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month	12.0 Month	refrigerated

Descriptive Properties	Value	Comments
Color	Clear/Colorless	before cure
Consistency	Pourable liquid	
Number of Components	Single	
Weight Loss	0.24%	200°C
	0.62%	250°C
	1.8%	300°C

## Contact Songhan Plastic Technology Co.,Ltd.

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