

## Epoxy Technology EPO-TEK® OG178 UV Cure Optical Epoxy

Category : Polymer , Thermoset , Epoxy

### Material Notes:

Material Description: A single component, UV/visible shifted light curable epoxy, designed for adhesive, sealing, coating and encapsulating applications found in semiconductor, electro-optics, fiber optics, medical, and scientific/OEM industries. It is a low viscosity, all-purpose adhesive. Information Provided by Epoxy Technology

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxy-Technology-EPO-TEK-OG178-UV-Cure-Optical-Epoxy.php](http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OG178-UV-Cure-Optical-Epoxy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	
Viscosity	300 - 600 cP @Temperature 23.0 °C	300 - 600 cP @Temperature 73.4 °F	100 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Modulus	1.52 GPa	221 ksi	Storage
Shear Strength	>= 23.4 MPa	>= 3400 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	68.0 µm/m-°C	37.8 µin/in-°F	Below Tg
	185 µm/m-°C	103 µin/in-°F	Above Tg
Maximum Service Temperature, Air	125 °C	257 °F	Continuous
	225 °C	437 °F	Intermittent
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	Continuous
	-55.0 °C	-67.0 °F	Intermittent
Glass Transition Temp, Tg	>= 50.0 °C	>= 122 °F	Post-Cure Dynamic Scan 20200°C; Ramp -40200°C @ 20°C/Min
Decomposition Temperature	296 °C	565 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
Refractive Index	1.528	1.528	
	@Wavelength 589 nm	@Wavelength 589 nm	

Optical Properties <i>Transmission, Visible</i>	<sup>&gt;= 95 %</sup> Metric	<sup>&gt;= 95 %</sup> English	Comments <i>Spectral</i>
	@Wavelength 380 - 520 nm	@Wavelength 380 - 520 nm	
	>= 99 %	>= 99 %	
	@Wavelength 541 - 1660 nm	@Wavelength 541 - 1660 nm	Spectral

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

Descriptive Properties	Value	Comments
Color	Clear Orange	before cure
Consistency	Pourable liquid	
Number of Components	Single	
Weight Loss	2.45%	200°C
	3.19%	250°C

## Contact Songhan Plastic Technology Co.,Ltd.

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