

## Epoxy Technology EPO-TEK® OG603 UV Cure Optical Epoxy

Category : Polymer , Thermoset , Epoxy

### Material Notes:

**Material Description:** A single component, low viscosity, UV curable adhesive designed for curing in seconds. It is an all-purpose, general adhesive for optical applications including fiber optic components, DVD, medical, and PCB level electro-optics. It can also be used for sealing and coating applications. It meets the requirements of USP Class VI biocompatibility standards for medical implants. Information Provided by Epoxy Technology

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Epoxy-Technology-EPO-TEK-OG603-UV-Cure-Optical-Epoxy.php](http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-OG603-UV-Cure-Optical-Epoxy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	
Viscosity	150 - 250 cP	150 - 250 cP	100 rpm
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	
Tensile Modulus	1.73 GPa	251 ksi	Storage
Shear Strength	>= 7.03 MPa	>= 1020 psi	Die

Thermal Properties	Metric	English	Comments
CTE, linear	69.0 µm/m-°C	38.3 µin/in-°F	Below Tg
	170 µm/m-°C	94.4 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	>= 70.0 °C	>= 158 °F	Post-Cure Dynamic Scan 20200°C; Ramp -40200°C @ 20°C/Min
Decomposition Temperature	385 °C	725 °F	Degradation Temperature

Optical Properties	Metric	English	Comments
Refractive Index	1.4736	1.4736	

Optical Properties	@Wavelength 589 nm Metric	@Wavelength 589 nm English	Comments
Transmission, Visible	>= 98 %  @Wavelength 420 - 1600 nm	>= 98 %  @Wavelength 420 - 1600 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	Clear/Colorless	before cure
Consistency	Pourable liquid	
Number of Components	Single	
Weight Loss	0.79%	200°C
	1.2%	250°C
	1.9%	300°C

## Contact Songhan Plastic Technology Co.,Ltd.

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