

# EPO-TEK® OG603

Epoxy; Epoxide  
Epoxy Technology Inc.

**Message:**  
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.

General Information		
Features	Biocompatible	
	General Purpose	
	Low Viscosity	
	UV Curable	
Uses	Adhesives	
	Coating Applications	
	Electrical/Electronic Applications	
	General Purpose	
	Medical/Healthcare Applications	
	Optical Applications	
	Printed Circuit Boards	
	Seals	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
	USP Class VI	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Thermal	Nominal Value	Unit
Glass Transition Temperature <sup>1</sup>	> 70.0	°C
CLTE - Flow		
-- <sup>2</sup>	6.9E-5	cm/cm/°C
-- <sup>3</sup>	1.7E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index		
-- <sup>4</sup>	1.473	
-- <sup>5</sup>	1.504	
Transmittance (420 to 1600 nm)	> 98.0	%
Thermoset	Nominal Value	Unit

Shelf Life (23°C)	52	wk
Additional Information	Nominal Value	Unit
Degradation Temperature	385	°C
Die Shear Strength - >3 kg (23°C)	7.03	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	1.73	GPa
Weight Loss on Heating		
200°C	0.79	%
250°C	1.2	%
300°C	1.9	%
Uncured Properties	Nominal Value	Unit
Color	Clear/Transparent	
Density	1.08	g/cm <sup>3</sup>
Viscosity <sup>6</sup> (23°C)	0.15 to 0.25	Pa·s
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	74	
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.	100 rpm	

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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