

## Product Information Sheet

**MATERIAL ID:** **EPO-TEK® OG603**

**Date:** Sep 2013

**Rev:** IV

**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.

**Number of Components:** Single

**Mix Ratio by Weight:** N/A

**Recommended Cure:** 100mW/cm<sup>2</sup> @ 240-365 nm for > 5 seconds, depending on thickness  
- under an F-type Mercury lamp

**Specific Gravity:** 1.08

**Pot Life:** N/A

**Shelf Life:** One year at room temperature

*NOTE:* Container(s) should be kept closed when not in use. Filled systems should be stirred thoroughly before mixing and prior to use.

**MATERIAL CHARACTERISTICS:** To be used as a guide only, not as a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results; Cure condition: varies as required

\* denotes test on lot acceptance basis

### PHYSICAL PROPERTIES:

* <b>Color (before cure):</b>	Clear/Colorless
* <b>Consistency</b>	Pourable liquid
* <b>Viscosity (23°C): @ 100 rpm</b>	150 - 250 cPs
<b>Thixotropic Index:</b>	N/A
* <b>Glass Transition Temp:</b>	≥ 70 °C (Post-Cure Dynamic Scan: 20-200°C; Ramp -10-200°C @ 20°C/Min)
<b>Coefficient of Thermal Expansion (CTE):</b>	
<b>Below Tg:</b>	69 x 10 <sup>-6</sup> in/in°C
<b>Above Tg:</b>	170 x 10 <sup>-6</sup> in/in°C
<b>Shore D Hardness:</b>	84
<b>Die Shear @ 23°C:</b>	≥ 3 Kg 1,020 psi
<b>Degradation Temp:</b>	385 °C
<b>Weight Loss:</b>	
@ 200°C	0.79 %
@ 250°C	1.20 %
@ 300°C	1.90 %
<b>Operating Temp:</b>	
<b>Continuous:</b>	- 55°C to 200°C
<b>Intermittent:</b>	- 55°C to 300°C
<b>Storage Modulus:</b>	250,734 psi
<b>Particle Size:</b>	N/A

### OPTICAL PROPERTIES @ 23°C:

<b>Spectral Transmission:</b>	≥ 98% @ 420-1600 nm
<b>Refractive Index (uncured):</b>	1.4734 @ 589 nm
<b>Refractive Index (cured):</b>	1.5037 @ 589 nm

**This information is based on data and tests believed to be accurate. Epoxy Technology, Inc. makes no warranties (expressed or implied) as to its accuracy and assumes no liability in connection with any use of this product.**

EPOXY TECHNOLOGY, INC.

14 FORTUNE DRIVE, BILLERICA, MA 01821 (978) 667-3805, FAX (978) 663-9782

[WEB SITE: www.epotek.com](http://www.epotek.com)