

## Product Information Sheet

**MATERIAL ID:**

**EPO-TEK® OG113**

**Date:** 06/2008

**Per:**

**Rev:** I

**Material Description:**

A single component, UV curable epoxy, designed for adhesive, sealing, coating and encapsulating applications found in semiconductor, electro-optics, fiber optics, medical, and scientific/OEM industries.

**Number of Components:**

Single

**Mix Ratio by weight:**

N/A

**Cure Schedule (minimum)\***

500mW/cm<sup>2</sup> for 1-2 minutes @ 320-500 nm (depending on thickness)

**Specific Gravity:**

1.15 --- Part A: Part B:

**Pot Life:**

N/A

**Shelf Life:**

One year at room temperature

*NOTE:* Container(s) should be kept closed in a dark location when not in use.

\*Please see Applications Note(s) available on our website.

**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.*

\* denotes test on lot acceptance basis; Cure condition: varies as required

<b>PHYSICAL PROPERTIES:</b>	
<b>*Color (before cure):</b>	Clear
<b>*Consistency:</b>	Pourable liquid
<b>*Viscosity (23°C):</b>	
@ 100 rpm	80 - 150 cPs
<b>Thixotropic Index:</b>	N/A
<b>*Glass Transition</b>	≥ 36 °C (Post-Cure)
	Dynamic Scan 20—200°C; Ramp -10—200°C @ 20°C/Min)
<b>Coefficient of Thermal Expansion (CTE):</b>	
Below Tg:	72 x 10 <sup>-6</sup> in/in°C
Above Tg:	188 x 10 <sup>-6</sup> in/in°C
<b>Shore D Hardness:</b>	62
<b>Die Shear @ 23°C:</b>	≥ 5 Kg / 1,700 psi
<b>Degradation Temp:</b>	361 °C
<b>Weight Loss:</b>	
@ 200°C:	2.0 %
@ 250°C:	3.3 %
@ 300°C:	5.1 %
<b>Operating Temp:</b>	
Continuous:	- 55°C to + 150°C
Intermittent:	- 55°C to + 250°C
<b>Storage Modulus @ 23°C:</b>	157,035 psi
<b>*Particle Size:</b>	N/A
<b>OPTICAL PROPERTIES @ 23°C:</b>	
<b>Spectral Transmission:</b>	>98 % @ 500-1660 nm
<b>Refractive Index (uncured):</b>	1.5055 @ 589 nm

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)