

## Product Information Sheet

**MATERIAL ID:**
**EPO-TEK® OG169**
**Date:** 08/2007

**Per:**
**Rev:** II

**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. It is non-yellowing after cure per ASTM D1925. Complies with USP Class VI biocompatibility standards.

**Number of Components:**

Single

**Mix Ratio by weight:**

N/A

**Cure Schedule (minimum)\***

 100mW/cm<sup>2</sup> for >4 minutes @ 320-500 nm (depending on thickness)

**Specific Gravity:**

1.12 --- 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: UV Cure + 150°C/varies as required

**PHYSICAL PROPERTIES:**

**\*Color (before cure):** Clear/Colorless  
**\*Consistency:** Pourable liquid  
**\*Viscosity (23°C):**  
     @ 100 rpm 100 - 200 cPs  
**Thixotropic Index:** N/A  
**\*Glass Transition** ≥ 80 °C (Post-Cure  
     Dynamic Scan 20—200°C; Ramp -10—200°C @ 20°C/Min)  
**Coefficient of Thermal Expansion (CTE):**  
     Below Tg: 74 x 10<sup>-6</sup> in/in°C  
     Above Tg: 156 x 10<sup>-6</sup> in/in°C  
**Shore D Hardness:** 86

**Die Shear @ 23°C:** ≥ 10 Kg / 3,400 psi  
**Degradation Temp:** 307 °C  
**Weight Loss:**  
     @ 200°C: 0.74 %  
     @ 250°C: 1.83 %  
     @ 300°C: 8.22 %  
**Operating Temp:**  
     Continuous: - 55°C to + 150°C  
     Intermittent: - 55°C to + 250°C  
**Storage Modulus @ 23°C:** 233,044 psi  
**\*Particle Size:** N/A

**OPTICAL PROPERTIES @ 23°C:**

**Spectral Transmission:** >98 % @ 460-1660 nm  
                                   >94 % @ 400 nm

**Refractive Index (uncured):** 1.5084 @ 589 nm

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