

Product Information Sheet

OG159-2 **MATERIAL ID: EPO-TEK**[®]

Date: Sep 2013 Ш Rev:

A single component, high viscosity, UV curable epoxy adhesive designed for sealing glass plates **Material Description:**

> together in the LCD/OLED/display industry. It contains 1mil glass beads for bond line control. Common applications include semiconductor, electro-optics, fiber optic, and scientific/OEM. It can be applied by screen printing or dispensing techniques. It is capable of coating, adhering, sealing,

and encapsulating devices.

Number of Components: Single Mix Ratio by Weight: N/A

Recommended Cure: 100mW/cm² @ 240-365 for > 2 minutes, depending on thickness

- under an F-type Mercury lamp

Specific Gravity: 1.18 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.

Thermal post-cure beneficial - contact techsery@epotek.com for recommendations.

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

PHYSCIAL PROPERTIES:

* Color (before cure): White

* Consistency Thixotropic paste

100,000-140,000 cPs * Viscosity (23°C): @ 2.5 rpm **Thixotropic Index:** N/A

* Glass Transition Temp: ≥ 30 °C (Post-Cure Dynamic Scan: 20-200°C; Ramp -10-200°C @ 20°C/Min)

Coefficient of Thermal Expansion (CTE):

58 x 10^{-υ} in/in°C **Below Tg:** 244 x 10⁻⁰ in/in°C Above Tg:

Shore D Hardness: 69 Lap Shear @ 23°C: N/A

Die Shear @ 23°C: ≥ 5 Kg 1,700 **psi**

Degradation Temp: 443 °C

Weight Loss:

@ 200°C 0.13 % @ 250°C 1.44 % @ 300°C 0.97 %

Operating Temp:

- 55°C to 200°C **Continuous:** - 55°C to 300°C **Intermittent: Storage Modulus:** 341,084 **psi** \leq 30 microns

OPTICAL PROPERTIES @ 23°C:

* Particle Size:

Spectral Transmission: \geq 98% @ 580-2000 **nm Refractive Index (uncured):** 1.5684 @ 589 nm **Refractive Index (cured):** 1.5715 @ **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.