

Product Information Sheet

MATERIAL ID:

EPO-TEK® OG114-4

Date: Nov 2010

Per:

Rev: IV

Material Description:

A single component, optically transparent, UV curable adhesive for opto-electronic applications including fiber packaging, LCD, LEDs, sensor devices, SCI-OEM precision optics and general electronic assembly. It is non-yellowing after cure as measured per ASTM D-1925.

Number of Components:

Single

Mix Ratio by weight:

N/A

Cure Schedule (minimum)*

100mW/cm² for 1-2 minutes @ 320-500 nm (depending on thickness)

Specific Gravity:

--- Part A: Part B:

Pot Life:

N/A

Shelf Life:

One year refrigerated

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

PHYSICAL PROPERTIES:	
<p>*Color (before cure): Clear</p> <p>*Consistency: Pourable liquid</p> <p>*Viscosity (23°C): @ 100 rpm 150 - 250 cPs</p> <p>Thixotropic Index: N/A</p> <p>*Glass Transition ≥ 50 °C (Post-Cure Dynamic Scan 20—200°C; Ramp -10—200°C @ 20°C/Min)</p> <p>Coefficient of Thermal Expansion (CTE): Below Tg: 73 x 10⁻⁶ in/in°C Above Tg: 209 x 10⁻⁶ in/in°C</p> <p>Shore D Hardness: 69</p>	<p>Die Shear @ 23°C: ≥ 10 Kg / 3,400 psi</p> <p>Degradation Temp: 372 °C</p> <p>Weight Loss: @ 200°C: 0.95 % @ 250°C: 1.55 % @ 300°C: 2.66 %</p> <p>Operating Temp: Continuous: - 55°C to + 175°C Intermittent: - 55°C to + 275°C</p> <p>Storage Modulus @ 23°C: 184,135 psi</p> <p>*Particle Size: N/A</p>
OPTICAL PROPERTIES @ 23°C:	
Spectral Transmission: >98 % @ 460-2000 nm	Refractive Index (uncured): 1.5176 @ 589 nm