



## Preliminary Product Information Sheet

(Note: These are typical properties to be used as a guide only, not a specification. Data below is not guaranteed.  
Different batches, conditions and applications yield differing results.)

**MATERIAL ID:****EPO-TEK® OG146-104 (formerly 91-104)****Date:** Sep 2013**Rev:** V**Material Description:**

A single component, UV curable epoxy designed for adhesive, coating and encapsulating applications within the semiconductor, fiber optic and medical industries. It can be used with fiber packaging, LCD, displays, lenses, micro-lens, CCD, and CMOS image sensors. It is non-yellowing after cure.

**Number of Components:** Single**Mix Ratio by Weight:** N/A**Recommended Cure:** 100mW/cm<sup>2</sup> for 240-365 nm for 1 minute, depending on thickness  
- under an F-type Mercury lamp**Specific Gravity:** 1.09**Pot Life:** 14 Days**Shelf Life:** Six months refrigerated

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 [techserv@epotek.com](mailto:techserv@epotek.com) for recommendations.

**MATERIAL CHARACTERISTICS:** If product crystallizes in storage, place container in warm oven until crystallization disappears. Please refer to Tech Tip #7 on website.

**PHYSICAL PROPERTIES:**

<b>Color (before cure):</b>	Clear/Colorless
<b>Consistency</b>	Pourable liquid
<b>Viscosity (23°C): @ 100 rpm</b>	164 cPs
<b>Thixotropic Index:</b>	N/A
<b>Glass Transition Temp:</b>	81 °C
<b>Shore D Hardness:</b>	80
<b>Degradation Temp:</b>	356 °C
<b>Weight Loss:</b>	
@ 200°C	0.58 %
@ 250°C	1.58 %
@ 300°C	3.92 %
<b>Operating Temp:</b>	
<b>Continuous:</b>	- 55°C to 150°C
<b>Intermittent:</b>	- 55°C to 250°C
<b>Particle Size:</b>	N/A

**OPTICAL PROPERTIES @ 23°C:**

<b>Spectral Transmission:</b>	≥ 97% @ 460-1660 nm
<b>Refractive Index (uncured):</b>	1.5139 @ 589 nm
<b>Refractive Index (cured):</b>	1.5251 @ 589 nm

**The data above is INITIAL only - it may be changed at anytime, for any reason without notice to anyone. It is provided only as a guide for evaluation/consideration.**

\*These material characteristics are typical properties that are based on a limited number of samples/batches. All properties are based on the cure indicated above. Some properties may vary as manufactured quantities are scaled up to commercialized production levels.