



## 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.)*

<b>MATERIAL ID:</b>	<b>EPO-TEK<sup>®</sup> OG172</b>
<b>Date:</b> 08/2008	<b>Per:</b> JD
<b>Rev:</b> 1	
<b>Material Description:</b>	A low index of refraction, optical grade adhesive for fiber packaging, sensor device, and general opto-electronic assemblies. It is a higher viscosity alternative to EPO-TEK <sup>®</sup> OG134.
<b>Number of Components:</b>	Single
<b>Mix Ratio:</b>	N/A
<b>Cure Schedule (minimum)</b>	100mW/cm <sup>2</sup> for 1-3 minutes @ 365 nm
<b>Specific Gravity:</b>	1.41            ---    Part A:                      Part B:
<b>Pot Life:</b>	N/A
<b>Shelf Life:</b>	Six months 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:

<b>PHYSICAL PROPERTIES:</b>			
<b>Color (before cure):</b>	Clear	<b>Die Shear @ 23°C:</b>	9.7 Kg
<b>Consistency:</b>	Pourable liquid	<b>Degradation Temp:</b>	331 °C
<b>Viscosity (23°C):</b>		<b>Weight Loss:</b>	
@ 50 rpm	2,669 cPs	@ 200°C:	2.11 %
<b>Thixotropic Index:</b>		@ 250°C:	4.47 %
<b>Glass Transition Temp:</b>	62 °C	@ 300°C:	7.29 %
<b>Coefficient of Thermal Expansion (CTE):</b>		<b>Operating Temp:</b>	
Below Tg:	104 x 10 <sup>-6</sup> in/in°C	Continuous:	- 55°C to + 125°C
Above Tg:	171 x 10 <sup>-6</sup> in/in°C	Intermittent:	- 55°C to + 225°C
<b>Shore D Hardness:</b>	70	<b>Storage Modulus @ 23°C:</b>	psi
<b>Lap Shear @ 23°C:</b>	psi	<b>Particle Size:</b>	N/A

  

<b>ELECTRICAL AND THERMAL PROPERTIES:</b>			
<b>Thermal Conductivity:</b>	N/A	<b>Dielectric Constant (1KHz):</b>	N/A
<b>Volume Resistivity @ 23°C:</b>	N/A	<b>Dissipation Factor (1KHz):</b>	N/A

  

<b>OPTICAL PROPERTIES @ 23°C:</b>	
<b>Spectral Transmission:</b>	<b>Refractive Index (uncured):</b>
>98 % @ 500-1640 nm	1.4727 @ 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.

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