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®OG116**
Date: 08/2008 **Per:**
Rev: I

Material Description:	A single component, UV cured, high viscosity adhesive for opto-electronic applications including fiber optic packaging, sensor device, SCI-OEM optics and general electronic assembly. Notable qualities include high Tg and index of refraction.
Number of Components:	Single
Mix Ratio:	N/A
Cure Schedule (minimum)	100mW/cm^2 for 1-2 minutes @ 320-500 nm (depending on thickness)
Specific Gravity:	1.20 --- 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:

PHYSICAL PROPERTIES:

Color (before cure):	Clear/Colorless		
Consistency:	Viscous liquid	**Die Shear @ 23°C:**	12.6 **Kg**
Viscosity (23°C):		**Degradation Temp:**	424 **°C**
@ 2.5 **rpm**	88,979 **cPs**	**Weight Loss:**	
Thixotropic Index:	N/A	**@ 200°C:**	0.19 **%**
Glass Transition Temp:	146 **°C**	**@ 250°C:**	0.40 **%**
		@ 300°C:	0.68 **%**
Coefficient of Thermal Expansion (CTE):		**Operating Temp:**	
Below Tg:	56 **x 10^{-6} in/in°C**	**Continuous:**	- 55**°C to** + 200**°C**
Above Tg:	165 **x 10^{-6} in/in°C**	**Intermittent:**	- 55**°C to** + 300**°C**
Shore D Hardness:		**Storage Modulus @ 23°C:**	215,745 **psi**
Lap Shear @ 23°C:	**psi**	**Particle Size:**	N/A

ELECTRICAL AND THERMAL PROPERTIES:

Thermal Conductivity:	N/A	**Dielectric Constant (1KHz):**	
Volume Resistivity @ 23°C:	**Ohm-cm**	**Dissipation Factor (1KHz):**	

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	> 98 **% @** 560-1660 **nm**	**Refractive Index (uncured):**	1.5756 **@ 589 nm**
	89 **% @** 400 **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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