



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® OG142-6
Date: 08/2008	Per:
Rev: 1	
Material Description:	A single component, UV cured, thixotropic adhesive for semiconductor, PCB and opto-electronic assembly. Due to its paste like rheology, it may be screen printed or dispensed, and is suggested for glob top DAM applications, or precision bonding of active optical components. It is an opaque epoxy intended for use outside the beam pathway.
Number of Components:	Single
Mix Ratio:	N/A
Cure Schedule (minimum)	100mW/cm2 for 1-2 minutes @ 320-500 nm (depending on thickness)
Specific Gravity:	1.17 --- 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):	White/Grey	Die Shear @ 23°C:	6.1 Kg
Consistency:	Thixotropic paste	Degradation Temp:	400 °C
Viscosity (23°C):		Weight Loss:	
@ 10 rpm	23,156 cPs	@ 200°C:	0.41 %
Thixotropic Index:	1.53	@ 250°C:	%
Glass Transition Temp:	85 °C	@ 300°C:	%
Coefficient of Thermal Expansion (CTE):		Operating Temp:	
Below Tg:	53 x 10 ⁻⁶ in/in°C	Continuous:	- 55°C to + 200°C
Above Tg:	178 x 10 ⁻⁶ in/in°C	Intermittent:	- 55°C to + 300°C
Shore D Hardness:	86	Storage Modulus @ 23°C:	296,163 psi
Lap Shear @ 23°C:	psi	Particle Size:	< 20 microns
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:	N/A	Index of Refraction:	1.5715 @ 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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