

Preliminary Product Information Sheet

EPO-TEK® OG142-6

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.

Date: Jun 2015

Rev: II

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

Recommended Cure: 100mW/cm² @ 240-365 for > 2 minutes, depending on thickness
- under an F-type Mercury lamp

Specific Gravity: 1.17

Pot Life: N/A

Shelf Life- Bulk: One year at room temperature

NOTES:

- Container(s) should be kept closed and in a dark location when not in use.
- Filled systems should be stirred thoroughly before mixing and prior to use.
- Performance properties (rheology, conductivity & others) may vary from those stated below when syringe packaging and/or post-processing is required.

MATERIAL CHARACTERISTICS:

PHYSICAL PROPERTIES:

Color (before cure):	White/Grey
Consistency:	Thixotropic paste
Viscosity (23°C) @ 10 rpm:	23,156 cPs
Thixotropic Index:	1.5
Glass Transition Temp:	85 °C (Dynamic Cure:20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min)
Coefficient of Thermal Expansion (CTE):	
Below Tg:	53 x 10 ⁻⁶ in/in°C
Above Tg:	178 x 10 ⁻⁶ in/in°C
Shore D Hardness:	86
Die Shear @ 23°C:	6.1 Kg
Degradation Temp:	400 °C
Weight Loss: @ 200°C	0.41 %
Suggested Operating Temperature:	< 300 °C (Intermittent)
Storage Modulus:	296,163 psi
Particle Size:	N/A

OPTICAL PROPERTIES @ 23°C:

Index of Refraction:	1.5715 @ 589 nm
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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.