



Product Information Sheet

MATERIAL ID:**EPO-TEK® OG198-54****Date:** Apr 2013**Rev:** VII**Material Description:**

Single component, low viscosity, high Tg, UV curable epoxy. Active alignment of optics, securing fibers into V-grooves and fiber pigtails are a few of its common applications. It can also be used for medical, hybrid and semiconductor device assembly. It is a "dual" cure chemistry, performance will be enhanced by a thermal post-cure. Replacement version of EPO-TEK® OG198-50.

Number of Components: Single**Mix Ratio by Weight:** N/A**Recommended Cure:** > 2 minutes @ 240-365 nm, depending on thickness - under an F-type Mercury lamp
Optional: 150°C / 1 Hour to cure shadowed areas**Specific Gravity:** 1.12**Pot Life:** N/A**Shelf Life:** One year refrigerated

NOTE: Container(s) should be kept closed when not in use. Filled systems should be stirred thoroughly before mixing and prior to use.

MATERIAL CHARACTERISTICS: To be used as a guide only, not as a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results; Cure condition: varies as required

* denotes test on lot acceptance basis

PHYSICAL PROPERTIES:

* Color (before cure):	Clear/Colorless
* Consistency	Pourable liquid
* Viscosity (23°C): @ 100 rpm	200 - 450 cPs
* Glass Transition Temp:	131 °C (Post-Cure Dynamic Scan: 20-200°C; Ramp -10-200°C @ 20°C/Min)
Coefficient of Thermal Expansion (CTE):	
Below Tg:	74 x 10 ⁻⁶ in/in°C
Above Tg:	145 x 10 ⁻⁶ in/in°C
Shore D Hardness:	86
Die Shear @ 23°C:	≥ 10 Kg 3,400 psi
Degradation Temp:	369 °C
Weight Loss:	
@ 200°C	0.24 %
@ 250°C	0.62 %
@ 300°C	1.80 %
Operating Temp:	
Continuous:	- 55°C to 200°C
Intermittent:	- 55°C to 300°C
Storage Modulus:	449,431 psi

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	≥ 97% @ 460 - 1680 nm
Refractive Index (uncured):	1.5046 @ 589 nm
Refractive Index (cured):	1.5256 @ 589 nm

This information is based on data and tests believed to be accurate. Epoxy Technology, Inc. makes no warranties (expressed or implied) as to its accuracy and assumes no liability in connection with any use of this product.