

**Date:** Mar 2015  
**No. of Components:** Single  
**Specific Gravity:** 1.12  
**Pot Life:** N/A  
**Shelf Life- Bulk:** One year refrigerated

**Rev:** X

**Recommended Cure:**

100mW/cm<sup>2</sup> @ 240-365nm for > 2 minutes,  
 - depending on thickness -  
 under an F-type Mercury lamp  
 Optional: 150°C /1 Hour to cure shadowed areas

**NOTES:**

- Container(s) should be kept closed 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.

**Product Description:** EPO-TEK<sup>®</sup> OG198-54 is a single component, low viscosity, electrically and thermally insulating UV cure, medical grade epoxy.

**Typical Properties:** *Cure condition: varies as required \*denotes test on lot acceptance basis Data below is not guaranteed.*

**PHYSICAL PROPERTIES:**

* <b>Color (before cure):</b>	Clear/Colorless
* <b>Consistency:</b>	Pourable liquid
* <b>Viscosity (23°C) @ 100 rpm:</b>	200-450 cPs
* <b>Glass Transition Temp:</b>	131 °C (Dynamic Cure:20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min)
<b>Coefficient of Thermal Expansion (CTE):</b>	
<b>Below Tg:</b>	74 x 10 <sup>-6</sup> in/in°C
<b>Above Tg:</b>	145 x 10 <sup>-6</sup> in/in°C
<b>Shore D Hardness:</b>	86
<b>Die Shear @ 23°C:</b>	≥ 10 Kg    3,400 psi
<b>Degradation Temp:</b>	369 °C
<b>Weight Loss:</b>	
<b>@ 200°C</b>	0.24 %
<b>@ 250°C</b>	0.62 %
<b>@ 300°C</b>	1.80 %
<b>Suggested Operating Temperature:</b>	< 300 °C (Intermittent)
<b>Storage Modulus:</b>	449,431 psi

**OPTICAL PROPERTIES @ 23°C:**

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

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**EPO-TEK<sup>®</sup> OG198-54 Advantages & Suggested Application Notes:**

- Complies with ISO 10993 biocompatibility testing.
- UV shadow cure allows for enhanced performance after a thermal post cure and significant cure propagation into shadow area.
- High Tg.
- Strong transmission in the Visible and IR regions.
- Suggested Applications:
  - Active alignment of optics
  - Bonding fibers to V-grooves
  - Fiber pigtails
  - Medical devices
  - Alignment in optoelectronic hybrids
  - Semiconductor devices

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