

Date: April 2020 **Rev:** XV
No. of Components: Single
Specific Gravity: 1.12
Pot Life: N/A
Shelf Life- Bulk: One year refrigerated

Recommended Cure	
Iron-Doped Mercury Flood Lamp <i>100 mW/cm² @ 240-365 nm</i>	> 30 sec.
Alternative Cures*	
Iron-Doped Mercury Spot Lamp	> 30 sec.
365nm LED Flood Lamp	> 30 sec.
Pulsed Mercury Lamp	> 30 sec.
UV Cure is complete after 24 hours from UV Exposure	
* Contact Technical Services for application-specific variations	

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) of the product may vary from those stated on the data sheet when bi-pak/syringe packaging or post-processing of any kind is performed. Epoxy's warranties shall not apply to any products that have been reprocessed or repackaged from Epoxy's delivered status/container into any other containers of any kind, including but not limited to syringes, bi-paks, cartridges, pouches, tubes, capsules, films or other packages.
- Heat curable at 150°C/1 Hour

Product Description: EPO-TEK[®] OG198-54 is a single component, low viscosity, electrically and thermally insulating UV cure epoxy.

Typical Properties: *Cure condition: varies as required *denotes test on lot acceptance basis Data below is not guaranteed. To be used as a guide only, not as a specification. Different batches, conditions & applications yield differing results.*

PHYSICAL PROPERTIES:	
* Color (before cure):	Clear/Colorless
* Consistency:	Pourable liquid
* Viscosity (23°C) @ 100 rpm:	200 - 450 cPs
Glass Transition Temp:	131 °C (Dynamic Cure:20-200°C/ISO 25 Min; 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:	
UV Cure:	≥ 10 Kg 3,556 psi
UV Cure + 23°C/24 Hours:	20.8 Kg 7,396.5 psi
UV Cure + 80°C/1 Hour:	22.2 Kg 7,894.3 psi
Degradation Temp:	369 °C
Weight Loss:	
@ 200°C	0.24 %
@ 250°C	0.62 %
@ 300°C	1.80 %
Suggested Operating Temperature:	< 300 °C (Intermittent)
Storage Modulus:	449,431 psi

OPTICAL PROPERTIES @ 23°C:	
Spectral Transmission:	≥ 97% @ 460-1,680 nm
Refractive Index (uncured):	1.5046 @ 589 nm
Refractive Index (cured):	1.5256 @ 589 nm

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EPO-TEK[®] OG198-54 Advantages & Suggested Application Notes:

- 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 pigtailed
 - Alignment in optoelectronic hybrids
 - Semiconductor devices

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