

Date: April 2017 **Rev:** VIII
No. of Components: Single
Specific Gravity: 1.15
Pot Life: N/A
Shelf Life- Bulk: One year refrigerated

Recommended Cure	
Iron-Doped Mercury Flood Lamp	> 30 sec. <i>100 mW/cm² @ 240-365 nm</i>
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) may vary from those stated below when syringe packaging and/or post-processing is required.
- Thermal post-cure beneficial - contact techserv@epotek.com for recommendations.

Product Description: EPO-TEK[®] OG198-55 is a high viscosity, single component, electrically and thermally insulating, translucent UV cure epoxy. It is the more thixotropic version of EPO-TEK[®] OG198-54.

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):	Translucent		
* Consistency:	Smooth thixotropic paste		
* Viscosity (23°C): @ 100 rpm	1,200-2,000 cPs		
Thixotropic Index:	6.0		
* Glass Transition Temp:	≥ 120 °C (Dynamic Cure:20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min)		
Coefficient of Thermal Expansion (CTE):			
	Below Tg:	72 x 10 ⁻⁶ in/in°C	
	Above Tg:	120 x 10 ⁻⁶ in/in°C	
Shore D Hardness:	85		
Die Shear @ 23°C:			
UV Cure:	≥ 20 Kg	7,112	psi
UV Cure + 23°C/24 Hours:	27.7 Kg	9,850.1	psi
UV Cure + 80°C/1 Hour:	27.2 Kg	9,672.3	psi
Degradation Temp:	354 °C		
Weight Loss:	@ 200°C	0.23 %	
	@ 250°C	0.73 %	
	@ 300°C	2.13 %	
Suggested Operating Temperature:	< 300 °C (Intermittent)		
Storage Modulus:	489,872 psi		
* Particle Size:	≤ 20 microns		

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	≥ 97% @ 560-1,680 nm
Refractive Index (uncured):	1.5023 @ 589 nm
Refractive Index (cured):	1.5196 @ 589 nm

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