

Product Information Sheet

EPO-TEK® OG198-55HV

Date:	September 2019	Rev:	IV
Material Description:	EPO-TEK® OG198-55HV is a high viscosity version of EPO-TEK® OG198-55, the fastest version of epoxy UV cure system with excellent adhesion strength.		
Number of Components:	Single		
Mix Ratio by Weight:	N/A		
Specific Gravity:	1.17		
Pot Life:	N/A		
Shelf Life- Bulk:	Six months refrigerated		
Shelf Life- Syringe:	Six months 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.

MATERIAL CHARACTERISTICS: *Cure condition: Varies as required *Testing on lot acceptance basis Data below is not guaranteed. To be used as a guide only, not as a specification. Different batches, conditions and applications yield differing results.*

PHYSICAL PROPERTIES:	
* Color (before cure):	Cloudy
* Consistency:	Thixotropic paste
* Viscosity (23°C) @ 10 rpm:	15,000-25,000 cPs
Thixotropic Index:	6.0
* Glass Transition Temp:	≥ 50 °C (Dynamic Cure:20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min)
Coefficient of Thermal Expansion (CTE):	
Below Tg:	67 x 10 ⁻⁶ in/in°C
Above Tg:	173 x 10 ⁻⁶ in/in°C
Shore D Hardness:	81
Lap Shear @ 23°C:	N/A
Die Shear @ 23°C:	
UV Cure:	19.5 Kg 6,934.1 psi
UV Cure + 23°C/24 Hours:	22.3 Kg 7,929.1 psi
UV Cure + 80°C/1 Hour:	20.6 Kg 7,325.1 psi
UV Cure + 120°C/1 Hour:	20.7 Kg 7,360.1 psi
UV Cure + 150°C/1 Hour:	23.9 Kg 8,498.1 psi
Degradation Temp:	364 °C
Weight Loss:	
@ 200°C	0.37 %
@ 250°C	0.98 %
@ 300°C	2.60 %
Suggested Operating Temperature:	< 300 °C (Intermittent)
Storage Modulus:	391,813 psi
* Particle Size:	≤ 20 microns

OPTICAL PROPERTIES @ 23°C:	
Spectral Transmission:	≥ 93% @ 680-1,680 nm
Refractive Index (uncured):	1.4666 @ 589 nm

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