



# EPO-TEK® MED-OG198-54

Technical Data Sheet  
For Reference Only

Biocompatible / Shadow Curable Capable / UV Curing Epoxy  
ISO 10993 Tested/Fully Compliant

**Date:** February 2018  
**Rev:** II  
**No. of Components:** Single  
**Mix Ratio by Weight:** N/A  
**Specific Gravity:** 1.14  
**Pot Life:** N/A  
**Shelf Life- Bulk:** One year refrigerated

**Biocompatible Certified Cure:**  
**UV 500mW/cm<sup>2</sup> 320-500nm/5 Minutes**

*Alternative cures are possible, but no certification or testing has been done to support them.  
 Contact techserv@epotek.com with questions.*

**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.
- If product crystallizes in storage, place container in warm oven until crystallization disappears. Please refer to Tech Tip #7 on website.

**Product Description:** EPO-TEK® MED-OG198-54 is a biocompatible, clear, low viscosity, high Tg, high strength, cationic/epoxy UV curing adhesive. It has capillary wicking and is capable of reaching shadowed regions using an oven post cure. It is used in many types of surgical and dental tools, fiber optic lasers, active optics and lenses.

**Typical Properties:** Cure condition: UV 500mW/cm<sup>2</sup> 320-500nm/5 Minutes Data below is not guaranteed.  
 Different batches, conditions & applications yield differing results. To be used as a guide only, not as a specification.  
 \* denotes test on lot acceptance basis

PHYSICAL PROPERTIES:			
* Color (before cure):	Clear/Colorless		
* Consistency:	Pourable liquid		
* Viscosity (23°C) @ 100 rpm:	200-400	cPs	
Glass Transition Temp:	118	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)	
Coefficient of Thermal Expansion (CTE):			
	Below Tg:	59	x 10 <sup>-6</sup> in/in°C
	Above Tg:	210	x 10 <sup>-6</sup> in/in°C
Shore D Hardness:	85		
Die Shear @ 23°C:	≥ 15	Kg	5,334 psi
Degradation Temp:	373 °C		
Weight Loss:			
	@ 200°C:	0.41	%
	@ 250°C:	0.98	%
	@ 300°C:	2.00	%
Suggested Operating Temperature:	< 300 °C (Intermittent)		
Storage Modulus:	467,434	psi	

OPTICAL PROPERTIES:			
Spectral Transmission:	≥ 98%	440-1680	nm
Refractive Index:	1.5031	@589	nm

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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.

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