



EPO-TEK® MED-354-2

Technical Data Sheet
For Reference Only

Biocompatible/High Temperature, Optical Epoxy

ISO 10993-5 Tested/Compliant

Date: September 2025
Rev: II
No. of Components: Two
Mix Ratio by Weight: 10 : 1
Specific Gravity: Part A: 1.20 Part B: 1.18
Pot Life: 3 Days
Shelf Life- Bulk: One year at room temperature

Biocompatible Certified Cure: 150°C / 1 Hour

Alternative biocompatible cure schedules may be possible, but have not been certified. Contact med@epotek.com with any 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.

Product Description: EPO-TEK® MED-354 is a biocompatible, high Tg, medium viscosity epoxy with a very long (3 day) pot life used in many medical applications, especially fiber optic endoscopy. It has excellent adhesion to quartz, Au, kovar, SST and most plastics and like EPO-TEK® MED-353ND has a color change upon cure, and excellent autoclave resistance.

Typical Properties: Cure condition: 150°C / 1 Hour Different batches, conditions & applications yield differing results.

Data below is not guaranteed. To be used as a guide only, not as a specification. * denotes test on lot acceptance basis

Information is Preliminary While Specifications Are Being Developed.

PHYSICAL PROPERTIES:

*Color (before cure):	Part A: Clear/Colorless	Part B: Dark amber
*Consistency:	Pourable liquid	
*Viscosity (23°C) @ 50 rpm:	7,415	cPs
Thixotropic Index:	N/A	
*Glass Transition Temp:	123	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):		
Below Tg:	80.8	x 10 ⁻⁶ in/in°C
Above Tg:	297.4	x 10 ⁻⁶ in/in°C
Shore D Hardness:	83	
Die Shear @ 23°C:	≥20	Kg 7112 psi
Lap Shear @ 23°C:	1061	psi
Degradation Temp:	430	°C
Weight Loss:		
@ 200°C:	0.05	%
@ 250°C:	0.10	%
@ 300°C:	0.20	%
Suggested Operating Temperature:	< 300	°C (Intermittent)
Storage Modulus:	259,763	psi
Particle Size:	N/A	

OPTICAL PROPERTIES:

Spectral Transmission:	≥ 95% @ 600-2100	nm
Refractive Index:	1.5759 @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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