



EPO-TEK® MED-375

Technical Data Sheet
For Reference Only

Biocompatible/High Temperature, Optical Epoxy

ISO 10993-5 Tested/Compliant

Date: February 2018
Rev: II
No. of Components: Two
Mix Ratio by Weight: 10 : 1
Specific Gravity: Part A: 1.21 Part B: 1.01
Pot Life: 4 Hours
Shelf Life- Bulk: One year at room temperature

Biocompatible Certified Cure: 150°C / 1 Hour

*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.
- Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters.

Product Description: EPO-TEK® MED-375 is a biocompatible, high Tg, high temperature epoxy. It has a color change upon cure and can provide near hermetic sealing. Additionally, it has excellent adhesion to many surfaces including: SST, titanium, ceramic, glass and most plastics. In designs, often used in potting fibers and active alignment of optics, as well as laminating PZT ferroelectrics in ultrasound applications.

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

PHYSICAL PROPERTIES:

* Color (before cure):	Part A: Clear/Colorless	Part B: Amber
* Consistency:	Pourable liquid	
* Viscosity (23°C) @ 50 rpm:	3,000-5,000	cPs
Thixotropic Index:	N/A	
* Glass Transition Temp:	≥ 100	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):		
Below Tg:	58	x 10 ⁻⁶ in/in°C
Above Tg:	162	x 10 ⁻⁶ in/in°C
Shore D Hardness:	85	
Lap Shear @ 23°C:	> 2,000	psi
Die Shear @ 23°C:	≥ 15	Kg 5,334 psi
Degradation Temp:	427	°C
Weight Loss:		
@ 200°C:	0.42	%
@ 250°C:	0.58	%
@ 300°C:	0.93	%
Suggested Operating Temperature:	< 375	°C (Intermittent)
Storage Modulus:	343,872	psi
* Particle Size:	N/A	

OPTICAL PROPERTIES:

Spectral Transmission:	≥ 97% @ 800-1620	nm
Refractive Index:	1.5636 @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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