



EPO-TEK® MED-353ND

Technical Data Sheet For Reference Only

Biocompatible/High Temperature Epoxy

ISO 10993 Tested/Fully Compliant

Date: February 2018 Rev: Ш No. of Components: Two Mix Ratio by Weight: 10:1 **Specific Gravity:** Part A: 1.20 Part B: 1.02 Syringe: 1.19 Pot Life: ≤ 3 Hours Shelf Life- Bulk: One year at room temperature Shelf Life- Syringe 6 months at -40°C

Biocompatible Certified Cure: 150°C / 1.5 Hours

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.

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

• TOTAL MASS SHOULD NOT EXCEED 25 GRAMS

Product Description: EPO-TEK® MED-353ND is a biocompatible, high temperature, high Tg, and high strength epoxy. It has decades of use and reliability in medical device designs worldwide. Medical applications span from fiber optics and endoscopes, to implants, to diagnostic equipment, to imaging modalities, to surgical tooling. It has high adhesion to SST, titanium, ceramics, glass and most plastic, as well as high chemical and moisture resistance.

Typical Properties: Cure condition: 150°C / 1.5 Hours 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	Part B: Amber
* Consistency:		Pourable liquid	
* Viscosity (23°C) @ 50 rpm:		3,000-5,000	cPs
Thixotropic Index:		N/A	
* Glass Transition Temp:		≥ 90	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):			
	Below Tg:	51	x 10 ⁻⁶ in/in°C
	Above Tg:	178	x 10 ⁻⁶ in/in°C
Shore D Hardness:		85	
Lap Shear @ 23°C:		> 2,000	psi
Die Shear @ 23°C:		≥ 10	Kg 3,556 psi
Degradation Temp:		413	O°
Weight Loss:			
	@ 200°C:	0.48	%
	@ 250°C:	0.74	%
	@ 300°C:	1.27	%
Suggested Operating Temperature: < 350		< 350	°C (Intermittent)
Storage Modulus:		464,126	psi
* Particle Size:		N/A	
OPTICAL PROPERTIES:			
Spectral Transmission:			nm
Refractive Index:			nm

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