



EPO-TEK® MED-353ND-T

Technical Data Sheet
For Reference Only

Biocompatible/High Temperature Thixotropic Epoxy

ISO 10993 Tested/Fully Compliant

Date: February 2018
Rev: II
No. of Components: Two
Mix Ratio by Weight: 10 : 1
Specific Gravity: Part A: 1.12 Part B: 1.02
Pot Life: 3 Hours
Shelf Life- Bulk: One year at room temperature

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.
- **TOTAL MASS SHOULD NOT EXCEED 25 GRAMS**
- Component suppliers assure Epoxy that all components are supplied in compliance with ISO 22442. Sales of EPO-TEK® MED-353ND-T shall accordingly require Epoxy's Standard Specification document to be signed as a technical agreement thereunder.

Product Description: EPO-TEK® MED-353ND-T is a biocompatible, thixotropic formulated version of EPO-TEK® MED-353ND. It has non-flowing properties (paste/non-sagging) and high temperature resistance. Some additional characteristics are: built-in color change in curing, and high strength. It is design in many medical devices where a high strength, non-flow adhesive is desired.

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: Tan	Part B: Amber	
* Consistency:	Smooth thixotropic paste		
* Viscosity (23°C) @ 20 rpm:	9,000-15,000	cPs	
Thixotropic Index:	3.3		
* 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:	55	x 10 ⁻⁶ in/in°C	
Above Tg:	136	x 10 ⁻⁶ in/in°C	
Shore D Hardness:	80		
Lap Shear @ 23°C:	> 2,000	psi	
Die Shear @ 23°C:	≥ 20	Kg	7,112 psi
Degradation Temp:	412	°C	
Weight Loss:			
@ 200°C:	0.19	%	
@ 250°C:	0.70	%	
@ 300°C:	1.75	%	
Suggested Operating Temperature:	< 350	°C (Intermittent)	
Storage Modulus:	547,722	psi	
* Particle Size:	≤ 20	microns	

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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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