



EPO-TEK® MED-HYB-353ND-TX3

PMF Syringe

Technical Data Sheet
For Reference Only
Biocompatible/UV Hybrid Curing Epoxy
ISO 10993-5 Tested/Compliant

Date: March 2024
Rev: I
No. of Components: Single
Mix Ratio by Weight: N/A
Specific Gravity: 1.18
Pot Life: < 3 Days
Shelf Life- Syringe: Six months at -40°C

Recommended Cure: UV 100mW/cm² for 10 seconds @ 240-365nm + 150°C/30 Minutes

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

NOTES:

- To prevent gelation, keep containers away from light sources.
- 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-HYB-353ND-TX3 is a biocompatible, high temperature specialty UV hybrid curing epoxy for medical applications. It is designed to have similar cured performance to EPO-TEK® MED-353ND; modified to allow for initial UV tacking. It is a higher thixotropy version of EPO-TEK® MED-HYB-353ND.

Typical Properties: Cure condition: UV 100mW/cm² for 10 seconds @ 240-365nm + 150°C/30 Minutes

To be used as a guide only, not as a specification. Different batches, conditions & applications yield differing results.

* denotes test on lot acceptance basis Data below is not guaranteed.

PHYSICAL PROPERTIES:

* Color (before cure):	Clear/Slight yellow		
* Consistency:	Pourable paste		
* Viscosity (23°C) @ 10 rpm:	25,000-41,000	cPs	
Thixotropic Index:	1.3		
* Glass Transition Temp:	≥ 80	°C	(Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):			
	Below Tg:	71	x 10 ⁻⁶ in/in°C
	Above Tg:	178	x 10 ⁻⁶ in/in°C
Shore D Hardness:	85		
Die Shear @ 23°C:	≥ 15	Kg	5,334 psi
Degradation Temp:	399	°C	
Weight Loss:			
	@ 200°C:	0.19	%
	@ 250°C:	0.71	%
	@ 300°C:	1.81	%
Suggested Operating Temperature:	< 350	°C	(Intermittent)
Storage Modulus:	520,395	Psi	
Particle Size:	≤ 20	microns	

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	≥ 98% @ 800-1000	nm
	≥ 95% @ 1,100-1,600	nm
	≥ 50% @ 550	nm
Refractive Index:	1.5456 @ 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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