EPO-TEK® HYB-353ND-TX3

Technical Data Sheet
For Reference Only
UV-Hybrid Epoxy, Pre-Mixed and Frozen Syringe

Date: June 2026 **Rev: VIII**
No. of Components: Single
Specific Gravity: 1.18
Pot Life: < 3 Days
Shelf Life- Syringe: Six months at -40°C

Recommended Cure	
Initial Tack 100 mW/cm² @ 240-365nm	**10 sec.**
followed by 150°C	**30 min.**
Alternative Thermal Cures (After Initial Tack)	
100°C	30 min.
80°C	1 hour
* Contact Technical Services for application-specific variations	

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® HYB-353ND-TX3 is a single component, high temperature hybrid epoxy for semiconductor and fiber optic applications. It is designed to have similar cured performance to EPO-TEK® 353ND, modified to allow for initial UV tacking. It is a higher thixotropy version of EPO-TEK® HYB-353ND.

Typical Properties: ***Cure condition: Initial Tack 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/Slightly 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:		≥ 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:		520395	psi	
* **Particle Size:**		≤ 20	microns	

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	≥ 50% @ 550	nm
	≥ 95% @ 1,100-1,600	nm
	≥ 98% @ 800-1,000	nm
Refractive Index (uncured):	1.5456 @ 589	nm

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