

Product Information Sheet



EPO-TEK® HYB-353ND-TX2 PMF Syringe

Date: October 2022 Material Description:	Rev: VII A single component, high temperature hybrid epoxy for semiconductor, fiber optic and medical 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.			
Number of Components: Single				
Mix Ratio by Weight:	N/A			
Recommended Cure:	Initial Tack 100mW/cm ² for 10 seconds @ 240-365 nm + 150°C/30 Minutes Thermal Cure			
Minimum Alternative Cure	Initial Tack 100mW/cm ² for 10 seconds @ 240-365 nm + 100°C/30 Minutes Thermal Cure Initial Tack 100mW/cm ² for 10 seconds @ 240-365 nm + 80°C/1 Hour Thermal Cure			
Specific Gravity:	1.14			
Pot Life:	< 2 Days			
Shelf Life:	Six months at -40°C			
NOTES:				
. To prove the plation loop containing even light courses				

• To prevent gelation, keep containers away from light sources.

• Performance properties (rheology, conductivity, others) of the Products 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.

 MATERIAL CHARACTERISTICS: Cure condition: Initial Tack 100mW/cm² for 10 seconds @ 240-365 nm + 150°C/30 Minutes

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

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

PHYSICAL PROPERTIES:					
* Color (before cure):	Cloud	y/Light Yellow			
* Consistency:	Pourable paste				
* Viscosity (23°C) @ 10 rp	om:	17,000-35,000	cPs		
Thixotropic Index:		1.7			
* 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:	63	x 10 ⁻⁶ in/in°C		
	Above Tg:	179	x 10 ⁻⁶ in/in°C		
Shore D Hardness:		80			
Die Shear @ 23°C:		≥ 15	Kg 5,334 psi		
Degradation Temp:		410	C		
Weight Loss:	@ 200°C	0.05	%		
	@ 250°C	0.50	%		
	@ 300°C	1.50	%		
Suggested Operating Temperature:		< 350	°C (Intermittent)		
Storage Modulus:		524,311	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					

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.

1.5457 @ 589 nm

EPOXY TECHNOLOGY, INC. 14 FORTUNE DRIVE, BILLERICA, MA 01821 (978) 667-3805, FAX (978) 663-9782 www.epotek.com

Refractive Index: