



Manufacturer:
Epoxy Technology

Product Name:
EPO-TEK HYB-353ND-HV High Temperature Epoxy, Hybrid Heat & UV Cure - Pre-Mixed and Frozen (3cc Syringe)

Manufacturer Part Number:
ETHYB-353ND-HV-3CC



Learn More

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Product Information Sheet

EPO-TEK® HYB-353ND-HV PMF Syringe



Date: February 2021

Rev: II

Material Description:

A single component, high temperature epoxy for semiconductor, hybrid, 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 viscosity version of EPO-TEK® HYB-353ND.

Number of Components:

Single

Mix Ratio by Weight:

N/A

Recommended Cure:

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

Minimum Alternative Cure:

Initial Tack 100mW/cm² for 10 seconds @ 240-365 nm + 100°C/30 Minutes Thermal Cure

Initial Tack 100mW/cm² for 10 seconds @ 240-365 nm + 80°C/1 Hour Thermal Cure

Specific Gravity:

1.16

Pot Life:

2 Hours

Shelf Life:

6 months at -40°C

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.
- TOTAL MASS SHOULD NOT EXCEED 25 GRAMS

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):	Light Yellow
* Consistency:	Pourable Liquid
* Viscosity (23°C) @ 10 rpm:	9,000 - 20,000 cPs
Thixotropic Index:	N/A
* Glass Transition Temp:	≥ 100 °C (Dynamic Cure:20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min)
Coefficient of Thermal Expansion (CTE):	
Below Tg:	48 x 10 ⁻⁶ in/in°C
Above Tg:	143 x 10 ⁻⁶ in/in°C
Shore D Hardness:	80
Lap Shear @ 23°C:	N/A
Die Shear @ 23°C:	≥ 25 Kg 8,890 psi
Degradation Temp:	388 °C
Weight Loss:	
@ 200°C	0.03 %
@ 250°C	0.65 %
@ 300°C	1.83 %
Suggested Operating Temperature:	< 300 °C (Intermittent)
Storage Modulus:	440,050 psi

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	≥ 50% @ 550 nm
	≥ 95% @ 1,100-1,600 nm
	≥ 98% @ 800-1,000 nm
Index of Refraction:	1.5545 @ 589 nm (uncured)

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.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

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Product specifications and data are subject to change without notice.