



Manufacturer:
Epoxy Technology

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

Manufacturer Part Number:
ETHYB-353ND-3CC



▶ Click here for more details on the EPO-TEK® HYB-353ND High Temperature Epoxy, Hybrid Heat & UV Cure - Pre-Mixed and Frozen (3cc Syringe)



Product Information Sheet

EPO-TEK® HYB-353ND PMF Syringe



Date: February 2022 **Rev:** III
Material Description: 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.
Number of Components: Single
Mix Ratio by Weight: N/A
Recommended Cure: **Initial Tack 100mW/cm² for 20 seconds @ 240-365 nm + 150°C/30 Minutes Thermal Cure**
Minimum Alternative Cure: Initial Tack 100mW/cm² for 20 seconds @ 240-365 nm + 100°C/30 Minutes Thermal Cure
 Initial Tack 100mW/cm² for 20 seconds @ 240-365 nm + 80°C/1 Hour Thermal Cure
Specific Gravity: 1.17
Pot Life: < 2 Hours
Shelf Life: Six 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 20 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): | Clear/Slight yellow |
| * Consistency: | Pourable liquid |
| * Viscosity (23°C) @ 10 rpm: | 3,000 - 7,000 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: | 45 x 10 ⁻⁶ in/in°C |
| Above Tg: | 138 x 10 ⁻⁶ in/in°C |
| Shore D Hardness: | 78 |
| Die Shear @ 23°C: | ≥ 20 Kg 7,112 psi |
| Degradation Temp: | 400 °C |
| Weight Loss: | |
| @ 200°C | 0.06 % |
| @ 250°C | 0.72 % |
| @ 300°C | 2.09 % |
| Suggested Operating Temperature: | < 350 °C (Intermittent) |
| Storage Modulus: | 542,731 psi |
| OPTICAL PROPERTIES @ 23°C: | |
| Spectral Transmission: | ≥ 50% @ 550 nm ≥ 95% @ 1,100-1,600 nm ≥ 98% @ 800-1,000 nm |
| Index of Refraction: | 1.5259 @ 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.