



Manufacturer:
Epoxy Technology

Product Name:
EPO-TEK® OD2002 High Tg, High Temperature Epoxy, Heat Cure (2.5g)

Manufacturer Part Number:
OD2002-2.5G

▶ [Click here for more details on the EPO-TEK® OD2002 High Tg, High Temperature Epoxy, Heat Cure \(2.5g\)](#)



EPO-TEK® OD2002

Technical Data Sheet
For Reference Only
High Tg Optical Epoxy

Date: December 2022
Rev: XV
No. of Components: Two
Mix Ratio by Weight: 20 : 1
Specific Gravity: Part A: 1.20 Part B: 1.02
Pot Life: 4 Hours
Shelf Life- Bulk: One year at room temperature
Shelf Life- Syringe: Six months at -40°C

Recommended Cure: 150°C / 1 Hour
 Minimum Alternative Cure(s):
 May not achieve performance properties listed below
 150°C / 5 Minutes
 120°C / 15 Minutes
 100°C / 30 Minutes

NOTES:

- Container(s) should be kept closed when not in use.
- Filled systems should be stirred thoroughly before mixing and prior to use.
- 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.
- Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters.

Product Description: EPO-TEK® OD2002 is a two component, thermally and electrically insulating, optical epoxy. Designed as a high Tg yet still compliant alternative to EPO-TEK® 353ND.

Typical Properties: Cure condition: 150°C / 1 Hour Different batches, conditions & applications yield differing results.
 Data below is not guaranteed. To be used as a guide only, not as a specification. * denotes test on lot acceptance basis

| PHYSICAL PROPERTIES: | | | |
|-----------------------------------------|------------------------|------------------------------------------------------------------|----------------------------|
| * Color (before cure): | Part A: Cloudy | Part B: Amber | |
| * Consistency: | Viscous liquid | | |
| * Viscosity (23°C) @ 5 rpm: | 24,000-42,000 | | cPs |
| Thixotropic Index: | N/A | | |
| * Glass Transition Temp: | ≥ 140 | °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: | 187 | x 10 ⁻⁶ in/in°C |
| Shore D Hardness: | 69 | | |
| Lap Shear @ 23°C: | 1,570 | | psi |
| Die Shear @ 23°C: | ≥ 10 | Kg | 3,556 psi |
| Degradation Temp: | 443 | | °C |
| Weight Loss: | @ 200°C: | < 0.05 | % |
| | @ 250°C: | < 0.05 | % |
| | @ 300°C: | < 0.05 | % |
| Suggested Operating Temperature: | < 350 | °C (Intermittent) | |
| Storage Modulus: | 263,291 | | psi |
| ELECTRICAL AND THERMAL PROPERTIES: | | | |
| Thermal Conductivity: | N/A | | |
| Volume Resistivity @ 23°C: | ≥ 2 x 10 ¹² | | Ohm-cm |
| Dielectric Constant (1KHz): | 2.83 | | |
| Dissipation Factor (1KHz): | 0.011 | | |
| OPTICAL PROPERTIES @ 23°C: | | | |
| Spectral Transmission: | ≥ 98% @ 800-1640 | | nm |
| Refractive Index: | 1.5728 @589 | | nm |

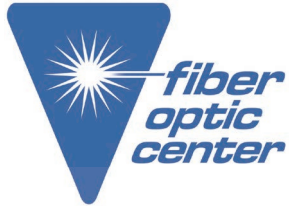
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Contact the professionals at Fiber Optic Center for a quote or to get more details.

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Product specifications and data are subject to change without notice. FOC last update 3/6/2026.



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EPO-TEK® OD2002 Advantages & Suggested Application Notes:

- Highly autoclave resistant; bonded devices rated to 1000 autoclave cycles.
- Suggested Applications:
 - Fiber Optic: fiber terminations to ferrules
 - Optoelectronics packaging
 - Hybrids: lid sealing with near hermetic leak rate

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