

Manufacturer:
Epoxy Technology

Product Name:
EPO-TEK® OD2002 Thermally and Electrically Insulating High Tg Epoxy,
Heat Cure (2.5g)

Manufacturer Part Number:
OD2002-2.5G



▶ [Click here for more details on the EPO-TEK® OD2002 Thermally and Electrically Insulating High Tg 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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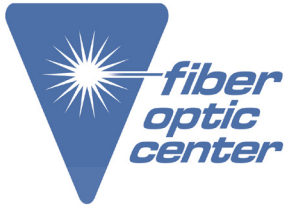
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Contact the professionals at Fiber Optic Center for a quote or to get more details.

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Product specifications and data are subject to change without notice. FOC last update 5/15/26



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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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