



**Manufacturer:**  
Epoxy Technology

**Product Name:**  
EPO-TEK® OD2002 Thermally Conductive & Electrically Insulating  
High Tg Epoxy, Heat Cure (4g)

**Manufacturer Part Number:**  
OD2002-4G



Learn More

▶ Click here for more details on the EPO-TEK® OD2002 Thermally Conductive & Electrically Insulating High Tg Epoxy, Heat Cure (4g)



## 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 <sup>-6</sup> in/in°C
	Above Tg:	187	x 10 <sup>-6</sup> 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 <sup>12</sup>	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	

Epoxyes and Adhesives for Demanding Applications™

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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.



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*High Tg Optical Epoxy*

### 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

Epoxy Technology, Inc. is a leader in the field of Epoxies and Adhesives for Demanding Applications™

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

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