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**Manufacturer:**  
Epoxy Technology

**Product Name:**  
EPO-TEK® OM125 Fiber Optic Epoxy, Heat Cure (8oz)

**Manufacturer Part Number:**  
ETOM125-8OZ

► Click here for more details on the EPO-TEK® OM125 Fiber Optic Epoxy, Heat Cure (8oz)



## EPO-TEK® OM125

Technical Data Sheet  
For Reference Only  
Optical Epoxy

Date: September 2017  
Rev: V  
No. of Components: Two  
Mix Ratio by Weight: 10 : 3  
Specific Gravity: Part A: 1.16 Part B: 0.99  
Pot Life: < 1 Hour  
Shelf Life- Bulk: One year at room temperature

Recommended Cure: 80°C / 1 Hour

Minimum Alternative Cure(s):  
May not achieve performance properties listed below  
65°C / 2 Hours  
23°C / 24 Hours

### 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® OM125 is two component, high Tg, optical epoxy designed for bonding multi-mode fiber optic connectors.

**Typical Properties:** Cure condition: varies as required 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: Clear/Colorless	Part B: Blue	
* Consistency:	Pourable liquid		
* Viscosity (23°C) @ 50 rpm:	2,400 - 5,400	cPs	
Thixotropic Index:	N/A		
* Glass Transition Temp:	≥ 80	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)	
Coefficient of Thermal Expansion (CTE):			
Below Tg:	28	x 10 <sup>-6</sup> in/in°C	
Above Tg:	114	x 10 <sup>-6</sup> in/in°C	
Shore D Hardness:	81		
Lap Shear @ 23°C:	808	psi	
Die Shear @ 23°C:	≥ 20	Kg	7,112 psi
Degradation Temp:	367	°C	
Weight Loss:			
@ 200°C:	0.25	%	
@ 250°C:	0.56	%	
@ 300°C:	1.43	%	
Suggested Operating Temperature:	< 275	°C (Intermittent)	
Storage Modulus:	387,803	psi	
* Particle Size:	N/A		
ELECTRICAL AND THERMAL PROPERTIES:			
Thermal Conductivity:	N/A		
Volume Resistivity @ 23°C:	≥ 2 x 10 <sup>13</sup>	Ohm-cm	
Dielectric Constant (1KHz):	3.90		
Dissipation Factor (1KHz):	0.019		
OPTICAL PROPERTIES @ 23°C:			
Spectral Transmission:	> 96% @ 1500	nm	
	> 98% @ 1000	nm	
	> 97% @ 800	nm	
Refractive Index:	N/A		

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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23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are  
subject to change without notice.



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**EPO-TEK® OM125 Advantages & Suggested Application Notes:**

- Color coded blue for easy operator ID on the manufacturing floor.
- A reliability test report is available when using MM fibers and MT ferrule connectors.
- It is compatible with Telcordia GR1221 and GR326.
- Versatility in curing from 23°C to 80°C.
- When used in optical beam pathway, a non-blue version is available.
- A low viscosity allows for wicking and capillary process methods. Can also be used for potting and encapsulation.

Epoxy Technology, Inc. Epoxies and Adhesives for Demanding Applications™

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