

**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		

Epoxy and Adhesives for Demanding Applications™

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.

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[www.epotek.com](http://www.epotek.com)

**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. Contact [techserv@epotek.com](mailto:techserv@epotek.com) for best post-curing techniques.
- When used in optical beam pathway, a non-blue version is available. Contact [techserv@epotek.com](mailto:techserv@epotek.com) for your best recommendation.
- A low viscosity allows for wicking and capillary process methods. Can also be used for potting and encapsulation.

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