



Product Information Sheet

EPO-TEK® OE100-T

Date: September 2017
Rev: II
No. of Components: Two
Mix Ratio by Weight: 10 : 1
Specific Gravity: Part A: 1.12 Part B: 1.02
Pot Life: 3 Hours
Shelf Life- Bulk: One year at room temperature

Recommended Cure: 150°C / 1 Hour

Minimum Alternative Cure(s):
May not achieve performance properties listed below
 150°C / 1 Minute
 80°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.
- **TOTAL MASS SHOULD NOT EXCEED 25 GRAMS**

Product Description: A two component, high Tg, high temperature grade epoxy designed for semiconductor, underfill, hard-disk drive and hybrid micro-electronics packaging applications. The epoxy can also be used for adhesive and sealing applications in electronics, optical, and medical devices.

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: White	Part B: Amber	
* Consistency:	Pourable liquid		
* Viscosity (23°C) @ 50 rpm:	4,500 - 7,000	cPs	
Thixotropic Index:	2.9		
* Glass Transition Temp:	≥ 100 °C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)		
Coefficient of Thermal Expansion (CTE):			
	Below Tg:	43 x 10 ⁻⁶ in/in°C	
	Above Tg:	165 x 10 ⁻⁶ in/in°C	
Shore D Hardness:	87		
Lap Shear @ 23°C:	> 2,000		psi
Die Shear @ 23°C:	≥ 10		Kg 3,556 psi
Degradation Temp:	468 °C		
Weight Loss:			
	@ 200°C:	0.38 %	
	@ 250°C:	0.50 %	
	@ 300°C:	0.84 %	
Suggested Operating Temperature:	< 350 °C (Intermittent)		
Storage Modulus:	244,296 psi		
* Particle Size:	≤ 10 microns		

ELECTRICAL AND THERMAL PROPERTIES:		
Thermal Conductivity:	N/A	
Volume Resistivity @ 23°C:	≥ 1 x 10 ¹³ Ohm-cm	
Dielectric Constant (1KHz):	3.08	
Dissipation Factor (1KHz):	0.003	

OPTICAL PROPERTIES @ 23°C:		
Spectral Transmission:	88% @ 800 nm	
	> 94% @ 880-1600 nm	
Refractive Index:	1.5657 @ 589 nm	

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.