



Product Information Sheet EPO-TEK® 310T-M

Date: December 2017
Rev: V
No. of Components: Two
Mix Ratio by Weight: 10 : 6
Specific Gravity: Part A: 1.12 Part B: 1.08
Pot Life: 35 Minutes
Shelf Life- Bulk: One year at room temperature

Recommended Cure: 65°C / 2 Hours

Minimum Alternative Cure(s):
May not achieve performance properties listed below
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: A two component, flexible epoxy designed for low stress applications in semiconductor, hybrid, acoustical, and optical industries. Replacement for EPO-TEK® 310T.

Typical Properties: Cure condition: 65°C / 2 Hours 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: Tan	Part B: Clear/colorless
* Consistency:	Slightly thixotropic paste	
* Viscosity (23°C) @ 100 rpm:	1,800 - 3,300	cPs
Thixotropic Index:	2.1	
* Glass Transition Temp:	≤ 30	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):		
Below Tg:	74	x 10 ⁻⁶ in/in°C
Above Tg:	236	x 10 ⁻⁶ in/in°C
Shore A Hardness:	75	
Lap Shear @ 23°C:	500	psi
Die Shear @ 23°C:	≥ 3	Kg 1,067 psi
Degradation Temp:	401	°C
Weight Loss:		
@ 200°C:	0.05	%
@ 250°C:	0.18	%
@ 300°C:	0.63	%
Suggested Operating Temperature:	< 300	°C (Intermittent)
Storage Modulus:	1,223	psi
* Particle Size:	≤ 20	microns

ELECTRICAL AND THERMAL PROPERTIES:

Thermal Conductivity:	N/A	
Volume Resistivity @ 23°C:	≥ 2.5 x 10 ¹⁰	Ohm-cm
Dielectric Constant (1KHz):	5.10	
Dissipation Factor (1KHz):	0.091	

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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