



Preliminary Product Information Sheet

EPO-TEK® TE109-15

Note: These are typical properties to be used as a guide only, not a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results.

Date: September 2017
Rev: IV
No. of Components: Two
Mix Ratio by Weight: 1 : 1
Specific Gravity: Part A: 1.32 Part B: 1.34
Pot Life: 8 Hours
Shelf Life- Bulk: One year at room temperature

Recommended Cure: 150°C / 1 Hour

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: Longer pot-life version of EPO-TEK® T7109, thermally conductive, electrically insulating epoxy for heat sinking applications.

MATERIAL CHARACTERISTICS*:

PHYSICAL PROPERTIES:		Cure condition: 150°C / 1 Hour	
Color (before cure):		Part A: White	Part B: Cream
Consistency:		Smooth paste	
Viscosity (23°C) @ 20 rpm:		10,148	cPs
Thixotropic Index:		2.3	
Glass Transition Temp:		65	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Shore D Hardness:		74	
Die Shear @ 23°C:		17.9	Kg
Degradation Temp:		396	°C
Weight Loss:			
	@ 200°C:	< 0.05	%
	@ 250°C:	0.49	%
	@ 300°C:	1.73	%
Suggested Operating Temperature:		< 300	°C (Intermittent)
Storage Modulus:		840,522	psi
Particle Size:		≤ 20	microns

ELECTRICAL AND THERMAL PROPERTIES:	
Thermal Conductivity:	0.6 W/mK

The data above is INITIAL only - it may be changed at any time, for any reason without notice to anyone. It is provided only as a guide for evaluation/consideration.

* These material characteristics are typical properties that are based on a limited number of samples/batches. All properties are based on the cure indicated above. Some properties may vary as manufactured quantities are scaled up to commercialized production levels.