



Preliminary Product Information Sheet

EPO-TEK® H67MP-T

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: Single
Mix Ratio by Weight: N/A
Specific Gravity: 1.97
Pot Life: 28 Days
Shelf Life- Bulk: One year at -40°C

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.

Product Description: A single component, thermally conductive, electrically insulating epoxy which complies with the requirements of MIL-STD 883, Test Method 5011 for hybrid microelectronic packaging and assemblies. It may be used for bonding SMDs, die-attach, substrate-attach or general heat sinking. Meets MIL-STD-883, Method 5011. A thixotropic version of EPO-TEK® H67MP.

MATERIAL CHARACTERISTICS*:

PHYSICAL PROPERTIES:		Cure condition: 150°C / 1 Hour	
Color (before cure):		White	
Consistency:		Highly viscous paste	
Viscosity (23°C) @ 0.5 rpm:		609,761	cPs
Thixotropic Index:		N/A	
Glass Transition Temp:		101	°C (Dynamic Cure: 20-300°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):	Below Tg:	35	x 10 ⁻⁶ in/in°C
	Above Tg:	93	x 10 ⁻⁶ in/in°C
Shore D Hardness:		94	
Lap Shear @ 23°C:		> 2,000	psi
Die Shear @ 23°C:		> 20	Kg
Degradation Temp:		370	°C
Weight Loss:	@ 200°C:	0.23	%
	@ 250°C:	0.33	%
	@ 300°C:	0.59	%
Suggested Operating Temperature:		< 300	°C (Intermittent)
Storage Modulus:		718,925	psi
Ion Content:	Cl ⁻ :	< 200 ppm	Na ⁺ : < 50 ppm
	NH ₄ ⁺ :	71 ppm	K ⁺ : < 50 ppm
Particle Size:		≤ 20	microns
ELECTRICAL AND THERMAL PROPERTIES:			
Thermal Conductivity:		0.9	W/mK
Volume Resistivity @ 23°C:		≥ 8 x 10 ¹³	Ohm-cm
Dielectric Constant (1KHz):		5.36	
Dissipation Factor (1KHz):		0.005	

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.