

Product Information Sheet

EPO-TEK® TH106-5

Date: February 2021 Recommended Cure: 150°C / 1 Hour

Rev:

No. of Components: Single

Mix Ratio by Weight: N/A Specific Gravity: 1.98 Pot Life:

Shelf Life- Bulk: One year at -40°C Minimum Alternative Cure(s):

May not achieve performance properties listed below

125°C / 2 Hours

NOTES:

• Container(s) should be kept closed when not in use.

• Filled systems should be stirred thoroughly before mixing and prior to use.

28 Days

• 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: Single component, thermally conductive, electrically insulating epoxy containing 2 mil glass beads for bond-line control in adhesive and sealing applications. It is the replacement for EPO-TEK® TH106-4.

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

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PHYSICAL PROPERTIES:				
* Color (before cure):		White		
* Consistency:		Thick paste		
* Viscosity (23°C) @ 5 rpm:		35,000-57,000	cPs	
Thixotropic Index:		2.0		
* Glass Transition Temp:		≥ 40	°C (Dynamic Cure: 20-300°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)	
Coefficient of Thermal Expansion (CTE):				
	Below Tg:	29	x 10 ⁻⁶ in/in°C	
,	Above Tg:	135	x 10 ⁻⁶ in/in°C	
Shore A Hardness:		75		
Lap Shear @ 23°C:		632	psi	
Die Shear @ 23°C:		< 5	Kg < 1,778 psi	
Degradation Temp:		360	°C	
Weight Loss:				
	@ 200°C:	0.08	%	
	@ 250°C:	0.61	%	
	@ 300°C:	2.07	%	
Suggested Operating Temperature:		< 300	°C (Intermittent)	
Storage Modulus:		126,778	psi	
* Particle Size:		≤ 50	microns	

ELECTRICAL AND THERMAL PROPERTIE	S:	
Thermal Conductivity:	0.6	W/mK
Volume Resistivity @ 23°C:	$\geq 1 \times 10^{12}$	Ohm-cm
Dielectric Constant (1KHz):	5.37	
Dissipation Factor (1KHz):	0.035	

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.