

Product Information Sheet

EPO-TEK® H61ND

Recommended Cure: 150°C / 1 Hour Date: September 2017

Rev: IV

No. of Components: Single

Minimum Alternative Cure(s): Mix Ratio by Weight: May not achieve performance properties listed below N/A

Specific Gravity: 2.27 150°C / 30 Minutes Pot Life: 20 Days 120°C / 1 Hour

Shelf Life- Bulk: Six months at -40°C

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.
- Failure to ship frozen may result in viscosity growth beyond the range of values herein; customer assumes all risk.

Product Description: A single component, high Tg, thermally conductive, electrically insulating epoxy adhesive for semiconductor, microelectronic, and opto-electronic packaging applications.

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):	Light grey	
* Consistency:	Smooth paste	
* Viscosity (23°C) @ 5 rpm:	30,000-50,000	cPs
Thixotropic Index:	1.3	
* 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 To	: 22	x 10 ⁻⁶ in/in°C
Above To	: 86	x 10 ⁻⁶ in/in°C
Shore D Hardness:	83	
Lap Shear @ 23°C:	506	psi
Die Shear @ 23°C:	≥ 20	Kg 7,112 psi
Degradation Temp:	468	°C
Weight Loss:		
@ 200°C		
@ 250°C	_	
@ 300°C		
Suggested Operating Temperature:	< 300	,
Storage Modulus:	892,663	r -
Ion Content:	Cl ⁻ : 90 ppm	• •
	NH ₄ +: 392 ppm	• •
* Particle Size:	≤ 50	microns

ELECTRICAL AND THERMAL PROPERTIES:			
Thermal Conductivity:	0.8	B W/mK	
Volume Resistivity @ 23°C:	$\geq 3 \times 10^{13}$	Ohm-cm	
Dielectric Constant (1KHz):	4.23)	
Dissipation Factor (1KHz):	0.003)	