

## **Product Information Sheet**

## **EPO-TEK® 320-LV**

Recommended Cure: 65°C / 2 Hours Date: September 2017

Rev: Ш

Two

No. of Components: Mix Ratio by Weight:

10:2 Specific Gravity:

Part A: 1.20 Part B: 0.87

Pot Life: 1 Hour

Shelf Life- Bulk: One year at room temperature 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.
- TOTAL MASS SHOULD NOT EXCEED 25 GRAMS

Product Description: A two component, optically opaque epoxy adhesive designed for semiconductor and PCB applications in optoelectronic instrumentation and assemblies. A lower viscosity version of EPO-TEK® 320 that can be poured, potted or cast into shape.

**Typical Properties:** Cure condition: varies as required 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: Black	Part B: Clear/colorless
* Consistency:	Smooth pourab	le liquid
* Viscosity (23°C) @ 100 rpm:	350 - 650	cPs
Thixotropic Index:	N/A	
* Glass Transition Temp:	≥ 55	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (C	TE):	
Belov		x 10 <sup>-6</sup> in/in°C
Above	e Tg: 170	x 10 <sup>-6</sup> in/in°C
Shore D Hardness:	84	
Lap Shear @ 23°C:	1,680	psi
Die Shear @ 23°C:	≥ 15	Kg 5,334 psi
Degradation Temp:	397	°C
Weight Loss:		
@ 20	0°C: 0.26	%
@ 25	0°C: 0.52	%
@ 30	0°C: 1.02	%
Suggested Operating Temperature:	< 300	°C (Intermittent)
Storage Modulus:	266,293	psi
* Particle Size:	≤ 20	microns

ELECTRICAL AND THERMAL PROPERTIES:				
Thermal Conductivity:	N/A			
Volume Resistivity @ 23°C:	$\geq 2 \times 10^9$	Ohm-cm		
Dielectric Constant (1KHz):	11.35			
Dissipation Factor (1KHz):	0.283			

<b>OPTICAL PROPERTIES @ 23°C:</b>		
Spectral Transmission:	< 1% @ 300-2500	nm
Refractive Index:	N/A	