



Preliminary Product Information Sheet

EPO-TEK® 323LP-LH Premium

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: II
No. of Components: Two
Mix Ratio by Weight: 10 : 1
Specific Gravity: Part A: 1.20 Part B: 1.09
Pot Life: 32 Hours
Shelf Life- Bulk: One year at room temperature

Recommended Cure: 150°C / 1 Hour
 Minimum Alternative Cure(s):
May not achieve performance properties listed below
 90°C / 30 Minutes

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.
- If product crystallizes in storage, place container in warm oven until crystallization disappears. Please refer to Tech Tip #7 on website.

Product Description: Longer pot life version of EPO-TEK®353ND designed for semiconductor, hybrid, fiber-optic, hard -disk drive and medical applications. This product meets halogen-free requirements.

MATERIAL CHARACTERISTICS*:

PHYSICAL PROPERTIES:		Cure condition: 150°C / 1 Hour	
Color (before cure):	Part A: Clear to slight yellow	Part B: Yellow	
Consistency:	Pourable liquid		
Viscosity (23°C) @ 50 rpm:	4,142	cPs	
Thixotropic Index:	N/A		
Glass Transition Temp:	118	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)	
Coefficient of Thermal Expansion (CTE):	Below Tg:	31	x 10 ⁻⁶ in/in°C
	Above Tg:	132	x 10 ⁻⁶ in/in°C
Shore D Hardness:	88		
Lap Shear @ 23°C:	> 2,000	psi	
Die Shear @ 23°C:	> 20	Kg	
Degradation Temp:	410	°C	
Weight Loss:	@ 200°C:	0.37	%
	@ 250°C:	0.59	%
	@ 300°C:	1.10	%
Suggested Operating Temperature:	< 350 °C (Intermittent)		
Storage Modulus:	387,556	psi	
Ion Content:	Cl:	174 ppm	Na ⁺ : 0 ppm
	NH ₄ ⁺ :	533 ppm	K ⁺ : 0 ppm
Particle Size:	N/A		
OPTICAL PROPERTIES @ 23°C:			
Spectral Transmission:	> 90 % @ 640-800	nm	
	> 94% @ 820-1620	nm	
Refractive Index:	1.5703 @ 589	nm	

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.