

## **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: February 2022 Recommended Cure: 150°C / 1 Hour

Rev: III
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

Shelf Life- Syringe: One year at -40°C

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

<u>Product Description:</u> 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\*

WATERIAL CHARACTERISTICS.			
PHYSICAL PROPERTIES:	Cure c	ondition: 15	50°C / 1 Hour
Color (before cure):	Part A:	Clear to sligh	ht yellow Part B: Yellow
Consistency:	Pourab	ole 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):		
Ве	low Tg:	31	x 10 <sup>-6</sup> in/in°C
Abo	ove Tg:	132	x 10 <sup>-6</sup> 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	e:	< 350	°C (Intermittent)
Storage Modulus:		387,556	psi
Ion Content:	Cl⁻:	174 ppm	Na <sup>+</sup> : 0 ppm
	NH <sub>4</sub> +:	533 ppm	K <sup>+</sup> : 0 ppm
Particle Size:		N/A	

<b>OPTICAL PROPERTIES @ 23°C</b>			
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.

<sup>\*</sup> 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.