



## Preliminary Product Information Sheet

### EPO-TEK® 383ND-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: 0.99  
**Pot Life:** 8 Hours  
**Shelf Life- Bulk:** One year at room temperature

**Recommended Cure: 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.
- Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters.
- If product crystallizes in storage, place container in warm oven until crystallization disappears. Please refer to Tech Tip #7 on website.
- **TOTAL MASS SHOULD NOT EXCEED 25 GRAMS**

**Product Description:** A slightly longer pot-life version of EPO-TEK® 353ND. This product meets halogen-free requirements.

#### MATERIAL CHARACTERISTICS\*:

<b>PHYSICAL PROPERTIES:</b>		<b>Cure condition: 90°C / 30 Minutes</b>	
Color (before cure):		Part A: Clear	Part B: Slightly Yellow
Consistency:		Pourable liquid	
Viscosity (23°C) @ 50 rpm:		4,175	cPs
Thixotropic Index:		N/A	
Glass Transition Temp:		110	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @20°C/Min)
Coefficient of Thermal Expansion (CTE):			
	Below Tg:	34	x 10 <sup>-6</sup> in/in°C
	Above Tg:	129	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:		421	°C
Weight Loss:			
	@ 200°C:	0.33	%
	@ 250°C:	0.43	%
	@ 300°C:	0.74	%
Suggested Operating Temperature:		< 350	°C (Intermittent)
Storage Modulus:		369,039	psi
Ion Content:		Cl <sup>-</sup> : 47 ppm	Na <sup>+</sup> : 4 ppm
		NH <sub>4</sub> <sup>+</sup> : 134 ppm	K <sup>+</sup> : 4 ppm
Particle Size:		≤ 20	microns

#### OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	> 90% @ 520-1660	nm
Refractive Index:	1.5715 @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.