Preliminary Product Information Sheet

EPO-TEK® 383ND-LH Ultra

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: 8.5 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.
- If product crystalizes 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 easily meets halogen-free requirements.

MATERIAL CHARACTERISTICS*:

PHYSICAL PROPERTIES:	**Cure condition:** 90°C / 30 Minutes	
Color (before cure):	Part A: Clear Part B: Slightly Yellow	
Consistency:	Pourable liquid	
Viscosity (23°C) @ 50 rpm:	4,001	cPs
Thixotropic Index:	N/A	
Glass Transition Temp:	116	°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^{-6} in/in°C
Above Tg:	129	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:	421	°C
Weight Loss:		
@ 200°C:	0.39	%
@ 250°C:	0.50	%
@ 300°C:	0.79	%
Suggested Operating Temperature:	< 350	°C (Intermittent)
Storage Modulus:	369,039	psi
Ion Content:	Cl^-: 4 ppm	Na^+: 5 ppm
	NH_4^+: 218 ppm	K^+: 1 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.

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