

Preliminary Product Information Sheet

(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.)

MATERIAL ID: EPO-TEK® 383ND-LH Ultra

Date: 09/2009

Rev: I

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

requirements.

Number of Components: Two Mix Ratio by Weight: 10:1

Cure Schedule (minimum): 90°C/30 Minutes

Specific Gravity: Part A: 1.20 Part B: 0.99

Pot Life: 8.5 Hours

Shelf Life: One year at room temperature

NOTE: Container(s) should be kept closed when not in use. Filled systems should be stirred thoroughly before mixing and prior to use. - TOTAL MASS SHOULD NOT EXCEED 25g -- IF PART A CRYSTALIZES IN STORAGE, PLACE CONTAINER IN A WARM OVEN UNTIL CRYSTALIZATION DISAPPEARS. ALLOW TO COOL TO ROOM TEMPERATURE BEFORE MIXING WITH THE PART B HARDENER--

MATERIAL CHARACTERISTICS:

PHYSCIAL PROPERTIES:				
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			
Coefficient of Thermal Expansion	_			
Below Tg:	34 x 10 ⁻⁶	in/in°C		
Above Tg:	129 x 10 ⁻⁶ in/in°C			
Shore D Hardness:	88	m/m C		
Lap Shear @ 23°C:	> 2,000 psi			
Die Shear @ 23°C:	> 2,000 psi > 20 Kg			
Degradation Temp:	421 °C			
Weight Loss:	.21 &			
@ 200°C	0.39 %			
@ 250°C	0.5 %			
@ 300°C	0.79 %			
Operating Temp:				
Continuous:	- 55°C to	250 °C		
Intermittent:	- 55°C to	350 °C		
Storage Modulus:	369,039 psi			
Ion Content:	-			
Cl:	4 ppm		NA^+ :	5 ppm
$\mathrm{NH_4}^+$:	218 ppm		K ⁺ :	1 ppm
Particle Size:	<20 micro	ns		

ELECTRICAL AND THERMAL PROPERTIES:	
Thermal Conductivity:	N/A

OPTICAL PROPERTIES @ 23°C:		
Spectral Transmission:	> 90% @ 520-1660 nm	
Index of Refraction:	1.5715 @ 589 nm	

The data above is INITIAL only - it may be changed at anytime, 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.