

Product Information Sheet

MATERIAL ID:

EPO-TEK® OD2002

Date: Feb 2012

Rev: VIII

Material Description: High Tg version of EPO-TEK®353ND with low modulus and good toughness. Replacement for EPO-TEK® 364. Complies with USP Class VI biocompatibility standards.

Number of Components: Two

Mix Ratio by Weight: 20:1

Cure Schedule (minimum): 150°C/5 Minutes - 120°C/15 Minutes - 100°C/30 Minutes

Specific Gravity: Part A: 1.20 Part B: 1.02

Pot Life: 4 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 25 GRAMS -

MATERIAL CHARACTERISTICS: To be used as a guide only, not as a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results; Cure condition: 150°C/1 Hour

* denotes test on lot acceptance basis

PHYSICAL PROPERTIES:

* Color (before cure):	Part A: Cloudy	Part B: Amber	
* Consistency	Pourable paste		
* Viscosity (23°C): @ 2.5 rpm	24,000 - 42,000 cPs		
Thixotropic Index:	N/A		
* Glass Transition Temp:	> 140 °C (Dynamic Cure: 20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)		
Coefficient of Thermal Expansion (CTE):			
Below Tg:	45 x 10 ⁻⁶ in/in°C		
Above Tg:	187 x 10 ⁻⁶ in/in°C		
Shore D Hardness:	69		
Lap Shear @ 23°C:	1,570 psi		
Die Shear @ 23°C:	>10 Kg		3,400 psi
Degradation Temp:	443 °C		
Weight Loss:			
@ 200°C	< 0.05 %		
@ 250°C	< 0.05 %		
@ 300°C	< 0.05 %		
Operating Temp:			
Continuous:	- 55°C to	225 °C	
Intermittent:	- 55°C to	325 °C	
Storage Modulus:	263,291 psi		
Ion Content:			
Cl:	ppm	NA⁺:	ppm
NH₄⁺:	ppm	K⁺:	ppm
Particle Size:	N/A		

ELECTRICAL AND THERMAL PROPERTIES:

Thermal Conductivity:	N/A
Volume Resistivity @ 23°C:	> 2 x 10 ¹² Ohm-cm
Dielectric Constant (1KHz):	2.83
Dissipation Factor (1KHz):	0.011

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	>98% @ 800 - 1640 nm	69% @ 600 nm
Index of Refraction:	1.5728 @ 589 nm	

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