

Product Information Sheet

MATERIAL ID: EPO-TEK® 383ND

Date: Jun 2010 Rev: IV Material Description:

A slightly longer pot life version of EPO-TEK®353ND designed for high temperature, optical and structural applications inside the semiconductor, hybrid, electronic, fiber optic and medical industries.

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 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.

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

PHYSCIAL PROPERTIES:

* Color (before cure): Part A: Clear Part B: Slightly Yellow

* Consistency Pourable liquid

* Viscosity (23°C): @ 50 rpm 3,500 - 6,000 cPs Thixotropic Index: N/A

* Glass Transition Temp: > 100 °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 6,800 psi

Degradation Temp: 415 °C

Weight Loss:

Operating Temp:

Continuous: - 55°C to 250 °C Intermittent: - 55°C to 350 °C

Storage Modulus: 369,039 psi * Particle Size: <20 microns

ELECTRICAL AND THERMAL PROPERTIES:

Thermal Conductivity: N/A

Volume Resistivity @ 23°C: $> 3 \times 10^{13}$ Ohm-cm

Dielectric Constant (1KHz): 2.58 Dissipation Factor (1KHz): 0.008

OPTICAL PROPERTIES @ 23°C:

 Spectral Transmission:
 > 90% @ 520 - 1660 nm

 Index of Refraction:
 1.5715 @ 589 nm

This information is based on data and tests believed to be accurate. Epoxy Technology, Inc. makes no warranties (expressed or implied) as to its accuracy and assumes no liability in connection with any use of this product.

WEB SITE: www.epotek.com