

Product Information Sheet

MATERIAL ID:
EPO-TEK® OM100
Date: 08/2007

Per:
Rev: II

Material Description:

A two component, rapid setting, room temperature cure epoxy. It may be used for many adhesive and sealing applications found in semiconductor, electronics, medical, fiber optics, and electro-optical devices. This fast gelling epoxy is ideal for curing in situ or in the field.

Number of Components:

Two

Mix Ratio by weight:

10:1

Cure Schedule (minimum)

23°C/10 Minutes (5 gram sample)

Specific Gravity:

--- Part A: 1.15 Part B: 1.12

Pot Life:

< 7 Minutes (5 gram sample)

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 5 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: 23°C/24 hours*

* denotes test on lot acceptance basis

PHYSICAL PROPERTIES:

*Color (before cure):	Part A: Clear/Colorless	Part B: Amber	
*Consistency:	Pourable liquid		Die Shear @ 23°C: ≥ 10 Kg / 3,400 psi
*Viscosity (23°C):			Degradation Temp: 386 °C
@ 100 rpm	400 - 1,000 cPs		Weight Loss:
Thixotropic Index:	N/A		@ 200°C: 0.60 %
*Glass Transition Temp:	≥ 50 °C (Dynamic Cure		@ 250°C: 0.95 %
20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)			@ 300°C: 1.80 %
Coefficient of Thermal Expansion (CTE):			Operating Temp:
Below Tg:	61 x 10 ⁻⁶ in/in°C		Continuous: - 55°C to + 200°C
Above Tg:	176 x 10 ⁻⁶ in/in°C		Intermittent: - 55°C to + 300°C
Shore D Hardness:	80		Storage Modulus @ 23°C: 242,425 psi
Lap Shear @ 23°C:	990 psi		Particle Size: N/A

ELECTRICAL AND THERMAL PROPERTIES:

Thermal Conductivity:	N/A	Dielectric Constant (1KHz):	N/A
Volume Resistivity @ 23°C:	N/A	Dissipation Factor (1KHz):	N/A

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	>98 % @ 440--1640 nm	Refractive Index (uncured):	1.5322 @ 589 nm
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