

Product Information Sheet

MATERIAL ID:

EPO-TEK® OH105

Date: 02/2007

Per:

Rev: II

Material Description:

A two component, high Tg, low viscosity, optically opaque epoxy designed for packaging of fiber optics and opto-electronics. It can be used as an adhesive, seal or encapsulant for many types of fibers, components, packages and optics found in the sensor or scientific/OEM industries, as well as medical or telecomm devices.

Number of Components:

Two

Mix Ratio by weight:

10:1

Cure Schedule (minimum)

150°C/1 Minute - 120°C/5 Minutes - 100°C/10 Minutes - 80°C/30 Minutes

Specific Gravity:

--- Part A: 1.23 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

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: Black Part B: Amber	Die Shear @ 23°C:	≥ 20 Kg / 6800 psi
*Consistency:	Smooth paste	Degradation Temp:	363 °C
*Viscosity (23°C):		Weight Loss:	
@ 100 rpm	1,700 - 2,700 cPs	@ 200°C:	0.53 %
Thixotropic Index:	3.8	@ 250°C:	
*Glass Transition Temp:	≥ 90 °C (Dynamic Cure	@ 300°C:	1.70 %
	20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)	Operating Temp:	
Coefficient of Thermal Expansion (CTE):		Continuous:	- 55°C to + 200°C
Below Tg:	39 x 10 ⁻⁶ in/in°C	Intermittent:	- 55°C to + 300°C
Above Tg:	139 x 10 ⁻⁶ in/in°C	Storage Modulus @ 23°C:	304,254 psi
Shore D Hardness:	90	*Particle Size:	≤ 20 microns
Lap Shear @ 23°C:	> 2,000 psi		

ELECTRICAL AND THERMAL PROPERTIES:

Thermal Conductivity:	N/A	Dielectric Constant (1KHz):	N/A
Volume Resistivity @ 23°C:	867 Ohm-cm	Dissipation Factor (1KHz):	N/A

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	< 1 % @ 300-2000 nm	Index of Refraction:	N/A
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