

Product Information Sheet

MATERIAL ID:
EPO-TEK[®] 730 Unfilled
Date: 02/2007

Per:
Rev: II

A two component, room temperature-curing, thermally and electrically insulating epoxy. It can be used for adhesive, sealing, potting or encapsulation applications found in semiconductor, electronics, optical and medical devices.

Material Description:
Number of Components:

Two

Mix Ratio by weight:

1:1

Cure Schedule (minimum)

100°C/30 Minutes - 80°C/2 Hours - 23°C/24 Hours

Specific Gravity:

--- Part A: 1.17 Part B: 0.97

Pot Life:

1 Hour

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: varies as required*

* denotes test on lot acceptance basis

PHYSICAL PROPERTIES:			
*Color (before cure):	Part A: Clear/Colorless	Part B: Clear Yellow	
*Consistency:	Pourable liquid		Die Shear @ 23°C: ≥ 10 Kg / 3,400 psi
*Viscosity (23°C):			Degradation Temp: 343 °C
@ 20 rpm	8,000 - 12,000 cPs		Weight Loss:
Thixotropic Index:	N/A		@ 200°C: 1.01 %
*Glass Transition Temp:	≥ 50 °C (Dynamic Cure		@ 250°C:
20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)			@ 300°C:
Coefficient of Thermal Expansion (CTE):			Operating Temp:
Below Tg:	61 x 10 ⁻⁶ in/in°C		Continuous: - 55°C to + 150°C
Above Tg:	192 x 10 ⁻⁶ in/in°C		Intermittent: - 55°C to + 250°C
Shore D Hardness:	76		Storage Modulus @ 23°C: 129,916 psi
Lap Shear @ 23°C:	> 2,000 psi		*Particle Size: N/A

ELECTRICAL AND THERMAL PROPERTIES:			
Thermal Conductivity:	N/A	Dielectric Constant (1KHz):	3.10
Volume Resistivity @ 23°C:	≥ 4 x 10 ¹² Ohm-cm	Dissipation Factor (1KHz):	0.008

OPTICAL PROPERTIES @ 23°C:			
Spectral Transmission:	> 95 % @ 480-1640 nm	Refractive Index (uncured):	1.5275 @ 589 nm

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