

Preliminary Product Information Sheet

(Note: These are typical properties to be used as a guide only, not a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results.)

MATERIAL ID:	EPO-TEK® OE107M
Date: 5/06	Per: MMH
Rev:	
Material Description:	A clear, flexible epoxy used for low stress adhesive and potting applications.
Number of Components:	two
Mix Ratio:	10:4
Cure Schedule (minimum)	80°C/90minutes; room temperature for 2 days
Specific Gravity:	--- Part A: Part B:
Pot Life:	<90min
Shelf Life:	One year when stored separately 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 (typical)*:

PHYSICAL PROPERTIES:			
Color (before cure):	Translucent, slightly yellow	Weight Loss:	
Consistency:	Pourable liquid	@ 200°C:	0.20 %
Viscosity (23°C):		@ 250°C:	0.33 %
@ 100 rpm	1,582 cps	@ 300°C:	0.91 %
@ rpm	cps	@ °C:	%
@ rpm	cps	Operating Temp:	
@ rpm	cps	Continuous:	-55°C to 200°C
Thixotropic Index:		Intermittent:	-55°C to 300°C
Glass Transition Temp:	9 °C	Storage Modulus @ 23°C:	1,090 psi
Coefficient of Thermal Expansion (CTE):		Ion Content:	
Below Tg:-	$73 \times 10^{-6} \text{ in/in}^\circ\text{C}$	Cl⁻:	ppm
Above Tg:	$241 \times 10^{-6} \text{ in/in}^\circ\text{C}$	NH₄⁺:	ppm
Shore A:	63	Na⁺:	ppm
Lap Shear:	432 psi	K⁺:	ppm
Die Shear:	> 3.1 Kg / psi	Particle Size:	microns
Degradation Temp:	367 °C		
ELECTRICAL AND THERMAL PROPERTIES:			
Thermal Conductivity:	W/mK	Dielectric Constant (1KHz):	
Volume Resistivity:	Ohm-cm	Dissipation Factor (1KHz):	
OPTICAL PROPERTIES:			
Spectral Transmission:	97% 400nm to 1600nm	Index of Refraction:	1.5158
	% @ nm		
	% @ nm		

The data above is INITIAL only - it may be changed at anytime, for any reason without notice to anyone. It is provided only as a guide for evaluation/consideration.

*These material characteristics are typical properties that are based on a limited number of samples/batches. All properties are based on the cure indicated above. Some properties may vary as manufactured quantities are scaled up to commercialized production levels.

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