

Product Information Sheet

MATERIAL ID:			EPO-TEK[®]	T7109-19			
Date:	Jun 2011						
Rev:	IV						
Material Description:		A flexible, thermally conductive, electrically insulating epoxy paste designed for low stress and heat dissipation applications. It is an alternative to EPO-TEK® T7109-17, designed for higher strength.					
Number of Components:		Two					
Mix Ratio by Weight:		100:15					
Cure Schedule (minimum):		80°C/2 Hours - 23°C/2 days					
Specific Grav	vity:	Part A:	1.36	Part B:	1.01		
Pot Life:		2 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: 80°C/2 Hours * denotes test on lot acceptance basis

PHYSCIAL PROPERTIES:									
* Color (before cure):	Part A: Grey	Part B: Clear/Co	lorless						
* Consistency	Smooth paste								
* Viscosity (23°C): @ 5 rpm	40,000 -	70,000 cPs							
Thixotropic Index:		2.7							
* Glass Transition Temp:	< 40 °C (Dynamic Cure: 20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)								
Coefficient of Thermal Expansion (CTE):									
Below Tg:	59 x 10 ⁻⁶ in/in°C								
Above Tg:	216 x 10 ⁻⁶ in/in°C								
Shore D Hardness:		41							
Lap Shear @ 23°C:		1,434 psi							
Die Shear @ 23°C:		5 Kg		1,700 psi					
Degradation Temp:		338 °C							
Weight Loss:									
@ 200°C		0.41 %							
@ 250°C		0.68 %							
@ 300°C		1.44 %							
Operating Temp:									
Continuous:	- 5	5°C to	150 °C						
Intermittent:	- 5	5°C to	250 °C						
Storage Modulus:		29,931 psi							
* Particle Size:		< 20 microns							
FLECTRICAL AND THERMAL PROPERTIES.									
Thermal Conductivity:		1.3 W/mK							
Volume Resistivity @ 23°C:	> :	$> 5 \times 10^{12}$ Ohm-cm							
Dielectric Constant (1KHz):		3.42							
Dissipation Factor (1KHz):		0.030							

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.

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