

EPO-TEK® H67MP-T

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, thermally conductive, electrically insulating epoxy designed to meet the requirements of MIL-STD 883, Test Method 5011 for hybrid microelectronic packaging and assemblies. It may be used for bonding SMDs, die-attach, substrate-attach or general heat sinking. Meets MIL-STD-883, Method 5011. A thixotropic version of EPO-TEK® H67MP.

General Information		
Features	Electrically Insulating	
	Thermally Conductive	
	Thixotropic	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
	MIL Std. 883	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Physical	Nominal Value	Unit
Ion Type		
Cl-	< 200	ppm
K+	< 50	ppm
Na+	< 50	ppm
NH4+	71	ppm
Particle Size	< 20.0	µm
Degradation Temperature	370	°C
Die Shear Strength - > 20 kg (23°C)	53.8	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	4.96	GPa
Weight Loss on Heating		
200°C	0.23	%
250°C	0.33	%
300°C	0.59	%

Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	101	°C
CLTE - Flow		
-- ²	3.5E-5	cm/cm/°C
-- ³	9.3E-5	cm/cm/°C
Thermal Conductivity	0.89	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	White	
Density	1.97	g/cm ³
Viscosity ⁴ (23°C)	610	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	94	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	5.36	
Volume Resistivity (23°C)	> 8.0E+13	ohms·cm
Dissipation Factor (1 kHz)	5.0E-3	
NOTE		

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|----|--|
| 1. | Dynamic Cure 20-200°C/ISO 25
Min; Ramp -10-200°C @ 20°C/Min |
| 2. | Below Tg |
| 3. | Above Tg |
| 4. | 0.5 rpm |

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