

EPO-TEK® H67-MP

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO-TEK® H67MP is a single component, thermally conductive epoxy for military hybrid die and component attach. It can also be used for semiconductor and high temperature ceramic and vacuum packaging.

General Information		
Features	High Viscosity	
	Low to No Outgassing	
	Thermally Conductive	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Military 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+	87	ppm
Particle Size	< 20.0	µm
Degradation Temperature	350	°C
Die Shear Strength - >20 kg (23°C)	46.9	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	4.43	GPa
Weight Loss on Heating		
200°C	0.48	%
250°C	0.71	%

300°C	1.2	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 90.0	°C	
CLTE - Flow			
-- ²	1.6E-5	cm/cm/°C	
-- ³	6.8E-5	cm/cm/°C	
Thermal Conductivity	0.45	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Shelf Life (-40°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color	White		
Density	2.00	g/cm ³	
Viscosity ⁴ (23°C)	300 to 400	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	40000	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	84		
Lap Shear Strength (23°C)	10.5	MPa	
Relative Permittivity (1 kHz)	4.90		
Volume Resistivity (23°C)	> 6.0E+13	ohms·cm	
Dissipation Factor (1 kHz)	4.1E-3		
NOTE			
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -40-200°C @ 20°C/Min		
2.	Below Tg		
3.	Above Tg		
4.	1 rpm		

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