

EPO-TEK® H65-175MP

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® H65-175MP is a single component, alumina-filled 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	Low to No Outgassing		
	Thermally Conductive		
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+	38	ppm	
Particle Size	< 20.0	µm	
Degradation Temperature	397	°C	TGA
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)	5.63	GPa	
Thixotropic Index	1.87		
Weight Loss on Heating			
200°C	0.10	%	
250°C	0.16	%	
300°C	0.30	%	

Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 100	°C	
CLTE - Flow			
-- ²	3.8E-5	cm/cm/°C	
-- ³	1.4E-4	cm/cm/°C	
Thermal Conductivity	0.79	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	1.68	g/cm ³	
Viscosity ⁴ (23°C)	80 to 120	Pa·s	
Curing Time (180°C)	1.0	hr	
Pot Life	40000	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	95		
Lap Shear Strength (23°C)	> 13.8	MPa	
Relative Permittivity (1 kHz)	5.30		
Volume Resistivity (23°C)	> 1.2E+14	ohms·cm	
Dissipation Factor (1 kHz)	0.011		
NOTE			

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|----|--|
| 1. | Dynamic Cure 20-300°C/ISO 25
Min; Ramp -10-200°C @ 20°C/Min |
| 2. | Below Tg |
| 3. | Above Tg |
| 4. | 2.5 rpm |

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