

# EPO-TEK® H73

Epoxy; Epoxide

Epoxy Technology Inc.

## Message:

A two component, high Tg, thermally conductive, electrically insulating epoxy designed for semiconductor packaging including heat sinking, hermetic sealing, and opto-electronic assemblies. A higher viscosity alternative to EPO-TEK® H74. NASA approved low outgassing epoxy.

General Information		
Features	Electrically Insulating	
	Low to No Outgassing	
	Thermally Conductive	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Seals	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Physical	Nominal Value	Unit
Particle Size	< 50.0	µm
Degradation Temperature	428	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus (23°C)	6.04	GPa
Weight Loss on Heating		
200°C	0.13	%
250°C	0.21	%
300°C	0.47	%
Thermal	Nominal Value	Unit
Glass Transition Temperature <sup>1</sup>	> 100	°C
CLTE - Flow		
-- <sup>2</sup>	3.5E-5	cm/cm/°C
-- <sup>3</sup>	9.8E-5	cm/cm/°C
Thermal Conductivity	0.81	W/m/K

Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 4.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- <sup>4</sup>	Amber	
-- <sup>5</sup>	Grey, Light	
Density		
Part B	1.02	g/cm <sup>3</sup>
Part A	2.02	g/cm <sup>3</sup>
Viscosity <sup>6</sup> (23°C)	80 to 100	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	150	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	91	
Lap Shear Strength (23°C)	13.5	MPa
Relative Permittivity (1 kHz)	5.17	
Volume Resistivity (23°C)	> 3.0E+13	ohms·cm
Dissipation Factor (1 kHz)	8.0E-3	
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	Part B	
5.	Part A	
6.	2.5 rpm	

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#### Recommended distributors for this material

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