

# EPO-TEK® H72

Epoxy; Epoxide  
Epoxy Technology Inc.

Message:  
EPO-TEK® H72 is a two component, high Tg, thermally conductive and electrically insulating epoxy designed for semiconductor packaging including heat sinking, hermetic sealing, and opto-electronic assemblies.

General Information		
Features	Electrically Insulating	
	Good Chemical Resistance	
	High Heat Resistance	
	Low to No Outgassing	
	Solvent Resistant	
	Thermally Conductive	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Seals	
Agency Ratings	ASTM E 595	
	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	476	°C
Die Shear Strength - > 20 kg (23°C)	46.9	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus (23°C)	5.24	GPa
Thixotropic Index	1.20	
Weight Loss on Heating		
200°C	0.18	%
250°C	0.28	%
300°C	0.43	%
Thermal	Nominal Value	Unit

Glass Transition Temperature <sup>1</sup>	> 100	°C	
CLTE - Flow			
-- <sup>2</sup>	2.9E-5	cm/cm/°C	
-- <sup>3</sup>	1.4E-4	cm/cm/°C	
Thermal Conductivity	0.60	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
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	Test Method
Color			
-- <sup>4</sup>	Amber		
-- <sup>5</sup>	Grey		
Density			
Part B	1.02	g/cm <sup>3</sup>	
Part A	2.00	g/cm <sup>3</sup>	
Viscosity <sup>6</sup> (23°C)	20 to 27	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	120	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	88		
Lap Shear Strength (23°C)	> 13.8	MPa	
Relative Permittivity (1 kHz)	5.40		
Volume Resistivity (23°C)	> 1.0E+13	ohms·cm	
Dissipation Factor (1 kHz)	9.0E-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.	10 rpm		

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