

# EPO-TEK® H75

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. It may be considered a higher viscosity alternative to EPO-TEK® H74.

General Information		
Features	Electrically Insulating	
	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	416	°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)	6.52	GPa
Weight Loss on Heating		
200°C	< 0.050	%
250°C	0.080	%
300°C	0.20	%
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>	9.0E-5	cm/cm/°C
Thermal Conductivity	0.66	W/m/K
Thermoset	Nominal Value	Unit

Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 3.3	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- <sup>4</sup>	Amber	
-- <sup>5</sup>	Grey	
Density		
Part B	1.02	g/cm <sup>3</sup>
Part A	2.26	g/cm <sup>3</sup>
Viscosity <sup>6</sup> (23°C)	300 to 400	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	180	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	95	
Lap Shear Strength (23°C)	13.0	MPa
Relative Permittivity (1 kHz)	5.37	
Volume Resistivity (23°C)	> 2.0E+12	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.	0.5 rpm	

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#### Recommended distributors for this material

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