

EPO-TEK® H70E-TI

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, thermally conductive, electrically insulating epoxy designed for chip bonding in microelectronic and optoelectronic applications.
Formerly 93-84

General Information		
Features	Electrically Insulating	
	Thermally Conductive	
Uses	Bonding	
	Electrical/Electronic Applications	
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	< 20.0	µm
Degradation Temperature	410	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	3.78	GPa
Thixotropic Index	1.80	
Weight Loss on Heating		
200°C	0.17	%
250°C	0.90	%
300°C	2.3	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 65.0	°C
CLTE - Flow		
-- ²	4.6E-5	cm/cm/°C
-- ³	1.9E-4	cm/cm/°C
Thermal Conductivity	0.60	W/m/K
Thermoset	Nominal Value	Unit

Thermoset Components		
Part A	Mix Ratio by Weight: 1.0	
Part B	Mix Ratio by Weight: 1.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- 4	Cream	
-- 5	Cream	
Density		
Part A	1.33	g/cm ³
Part B	2.06	g/cm ³
Viscosity ⁶ (23°C)	2.1 to 3.0	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	< 2900	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	75	
Lap Shear Strength (23°C)	9.72	MPa
Relative Permittivity (1 kHz)	4.23	
Volume Resistivity (23°C)	> 5.0E+13	ohms·cm
Dissipation Factor (1 kHz)	4.0E-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.	100 rpm	

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