

EPO-TEK® H70E-2LC

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, thermally conductive, electrically insulating epoxy designed for glob-top chip protection in TAB and COB die-attach technologies. It is used to prevent chips from being mechanically damaged during micro-package assembly and handling.

General Information		
Features	Electrically Insulating	
	Thermally Conductive	
	Thixotropic	
Uses	Adhesives	
	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
Ion Type - Cl-	194	ppm
Particle Size	< 50.0	µm
Degradation Temperature	400	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 175	°C
Intermittent	-55 to 350	°C
Storage Modulus (23°C)	6.37	GPa
Thixotropic Index	3.26	
Weight Loss on Heating (250°C)	0.67	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 60.0	°C
CLTE - Flow		
-- ²	1.8E-5	cm/cm/°C
-- ³	7.5E-5	cm/cm/°C
Thermal Conductivity	0.79	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	Black	
-- 5	Cream	
Density		
Part A	1.63	g/cm ³
Part B	2.30	g/cm ³
Viscosity ⁶ (23°C)	6.5 to 9.5	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	3600	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	72	
Lap Shear Strength (23°C)	13.6	MPa
Relative Permittivity (1 kHz)	5.05	
Volume Resistivity (23°C)	> 1.5E+13	ohms·cm
Dissipation Factor (1 kHz)	6.6E-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 A	
5.	Part B	
6.	20 rpm	

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