

EPO-TEK® H63

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, electrically insulating, thermally conductive epoxy adhesive for semiconductor, hybrid packaging and electronic circuit assembly applications. It is a higher viscosity alternative to EPO-TEK® H62.

General Information		
Features	Electrically Insulating	
	High Viscosity	
	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
Particle Size	< 50.0	µm
Degradation Temperature	418	°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)	3.21	GPa
Thixotropic Index	1.13	
Weight Loss on Heating		
200°C	0.050	%
250°C	0.19	%
300°C	0.66	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 120	°C
CLTE - Flow		
-- ²	2.7E-5	cm/cm/°C
-- ³	1.3E-4	cm/cm/°C

Thermal Conductivity	0.56	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life ⁴	52	wk
Uncured Properties	Nominal Value	Unit
Color	Black	
Density	1.79	g/cm ³
Viscosity ⁵ (23°C)	25 to 35	Pa · s
Curing Time (150°C)	1.0	hr
Pot Life	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	91	
Lap Shear Strength (23°C)	7.60	MPa
Relative Permittivity (1 kHz)	4.75	
Volume Resistivity (23°C)	> 3.0E+13	ohms · cm
Dissipation Factor (1 kHz)	0.021	

NOTE

- | | |
|----|--|
| 1. | Dynamic Cure 20-200°C/ISO 25
Min; Ramp -10-200°C @ 20°C/Min |
| 2. | Below Tg |
| 3. | Above Tg |
| 4. | Refrigerated |
| 5. | 10 rpm |

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