

EPO-TEK® H54

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® H54 is a two component, high Tg, electrically and thermally insulating epoxy adhesive for general bonding and high temperature packaging in medical, hybrid, and optical industries.

General Information		
Features	Electrically Insulating	
	High Heat Resistance	
	Thermally Insulating	
	Thixotropic	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Optical Applications	
	Printed Circuit Boards	
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	399	°C
Die Shear Strength - > 15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 225	°C
Intermittent	-55 to 325	°C
Storage Modulus	3.86	GPa
Thixotropic Index	3.50	
Weight Loss on Heating		
200°C	0.020	%
250°C	0.45	%
300°C	1.5	%
Thermal	Nominal Value	Unit

Glass Transition Temperature ¹	> 90.0	°C
CLTE - Flow		
-- ²	4.3E-5	cm/cm/°C
-- ³	2.3E-4	cm/cm/°C
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
Part B	Mix Ratio by Weight: 1.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ⁴	Amber	
-- ⁵	Tan	
Density		
Part B	1.02	g/cm ³
Part A	1.12	g/cm ³
Viscosity ⁶ (23°C)	9.0 to 15	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	180	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	80	
Lap Shear Strength (23°C)	13.5	MPa
Relative Permittivity (1 kHz)	3.21	
Volume Resistivity (23°C)	> 4.0E+12	ohms·cm
Dissipation Factor (1 kHz)	3.0E-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.	20 rpm	

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