

EPO-TEK® H24

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK ® H24 is a two component, electrically and thermally conductive epoxy adhesive designed for semiconductor die attach and hybrid micro-electronics assembly.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Low Density	
	Thermally Conductive	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Industrial Applications	
	LEDs	
	Medical/Healthcare 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-	60	ppm
K+	8	ppm
Na+	88	ppm
NH4+	21	ppm
Particle Size	< 45.0	µm
Degradation Temperature	470	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus (23°C)	3.34	GPa
Thixotropic Index	1.86	
Weight Loss on Heating		

200°C	0.040	%	
250°C	0.040	%	
300°C	0.10	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 100	°C	
CLTE - Flow			
-- ²	2.8E-5	cm/cm/°C	
-- ³	1.0E-4	cm/cm/°C	
Thermal Conductivity	0.67	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 5.0		
Shelf Life (23°C)	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁴	Amber		
-- ⁵	Silver		
Density			
Part B	1.05	g/cm ³	
Part A	2.09	g/cm ³	
Viscosity ⁶ (23°C)	15 to 23	Pa · s	
Curing Time (150°C)	1.0	hr	
Pot Life	1100	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	76		
Lap Shear Strength (23°C)	> 13.8	MPa	
Volume Resistivity (23°C)	< 0.020	ohms · cm	
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.	10 rpm		

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