

EPO-TEK® 930-1

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two part, thermally conductive, electrically insulating epoxy. It can be used for heat sinking semiconductor devices, hybrid microelectronics, optics or medical devices. It is a lower viscosity and smaller particle size alternative to EPO-TEK® 930.

General Information		
Features	Electrically Insulating	
	Thermally Conductive	
Uses	Electrical/Electronic Applications	
	Optical 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	415	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	5.47	GPa
Thixotropic Index	3.80	
Weight Loss on Heating		
200°C	0.090	%
250°C	0.50	%
300°C	1.3	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 70.0	°C
CLTE - Flow		
-- ²	2.8E-5	cm/cm/°C
-- ³	9.6E-5	cm/cm/°C
Thermal Conductivity	1.1	W/m/K
Thermoset	Nominal Value	Unit

Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 4.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- 4	Amber	
-- 5	White	
Density		
Part B	1.03	g/cm ³
Part A	1.40	g/cm ³
Viscosity ⁶ (23°C)	60 to 80	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	1400	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	82	
Lap Shear Strength (23°C)	11.3	MPa
Relative Permittivity (1 kHz)	3.99	
Volume Resistivity (23°C)	> 1.0E+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.	5 rpm	

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