

EPO-TEK® 731

Epoxy; Epoxide
Epoxy Technology Inc.

Message:

A two component, thixotropic, room temperature-curing epoxy adhesive. It is an electrically and thermally insulating epoxy designed for general applications in semiconductor packaging, electronics, medical, and optical industries. A higher viscosity version of EPO-TEK® 730.

General Information		
Features	Electrically Insulating	
	General Purpose	
	Thermally Insulating	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
	General Purpose	
	Medical/Healthcare 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	417	°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)	1.36	GPa
Weight Loss on Heating		
200°C	0.47	%
250°C	0.92	%
300°C	1.6	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 55.0	°C
CLTE - Flow		

-- ²	7.4E-5	cm/cm/°C
-- ³	1.7E-4	cm/cm/°C
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	Tan	
-- ⁵	Tan	
Density		
Part B	0.968	g/cm ³
Part A	1.12	g/cm ³
Viscosity ⁶ (23°C)	180 to 280	Pa · s
Curing Time (80°C)	2.0	hr
Pot Life	90	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	66	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	3.38	
Volume Resistivity (23°C)	> 2.0E+13	ohms · cm
Dissipation Factor (1 kHz)	0.028	
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.	1.0 rpm	

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