

EPO-TEK® 320-LV

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, optically opaque epoxy adhesive designed for semiconductor and PCB applications in optoelectronic instrumentation and assemblies. A lower viscosity version of EPO-TEK® 320 that can be poured, potted or cast into shape.

General Information		
Uses	Adhesives	
	Electrical/Electronic Applications	
	Printed Circuit Boards	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Processing Method	Casting	
	Potting	

Physical	Nominal Value	Unit
Particle Size	< 20.0	µm
Degradation Temperature	397	°C
Die Shear Strength - > 15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	1.84	GPa
Weight Loss on Heating		
200°C	0.26	%
250°C	0.52	%
300°C	1.0	%

Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 55.0	°C
CLTE - Flow		
-- ²	4.8E-5	cm/cm/°C
-- ³	1.7E-4	cm/cm/°C

Optical	Nominal Value	Unit
Transmittance (300 to 2500 nm)	< 1.0	%

Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
Part B	Mix Ratio by Weight: 2.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ⁴	Black	
-- ⁵	Clear/Transparent	
Density		
Part B	0.868	g/cm ³
Part A	1.20	g/cm ³
Viscosity ⁶ (23°C)	0.35 to 0.65	Pa·s
Curing Time (65°C)	2.0	hr
Pot Life	60	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	84	
Lap Shear Strength (23°C)	11.6	MPa
Relative Permittivity (1 kHz)	11.4	
Volume Resistivity (23°C)	> 2.0E+9	ohms·cm
Dissipation Factor (1 kHz)	0.28	
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 A	
5.	Part B	
6.	100 rpm	

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