

# EPO-TEK® B9021-13

Epoxy; Epoxide

Epoxy Technology Inc.

## Message:

A single component, thermally conductive, electrically insulating, B-stageable epoxy paste. It was designed for heat sinking applications found at the semiconductor and PCB level electronics packaging. It may also be used for B-stage assembly of 1) window-sealing optical devices and sensors; 2) substrate attach and 3) lid-sealing hybrids.

General Information		
Features	Electrically Insulating	
	Thermally Conductive	
Uses	Electrical/Electronic Applications	
	Optical Applications	
	Printed Circuit Boards	
	Seals	
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	345	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 175	°C
Intermittent	-55 to 275	°C
Storage Modulus (23°C)	2.57	GPa
Thixotropic Index	3.44	
Weight Loss on Heating		
200°C	2.5	%
250°C	4.0	%
300°C	6.8	%
Thermal	Nominal Value	Unit
Glass Transition Temperature	70.0	°C
CLTE - Flow		
-- 1	4.0E-5	cm/cm/°C
-- 2	1.4E-4	cm/cm/°C

Thermal Conductivity	0.96	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life <sup>3</sup>	52	wk
Uncured Properties	Nominal Value	Unit
Color	White	
Density	1.31	g/cm <sup>3</sup>
Viscosity <sup>4</sup> (23°C)	15 to 25	Pa·s
Curing Time		
80°C <sup>5</sup>	0.50	hr
150°C	0.50	hr
Pot Life	1400	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	80	
Lap Shear Strength (23°C)	5.34	MPa
NOTE		
1.	Below Tg	
2.	Above Tg	
3.	Refrigerated	
4.	10 rpm	
5.	B-stage	

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