

# EPO-TEK® B9021-1

Epoxy; Epoxide

Epoxy Technology Inc.

## Message:

A single component, B-stageable epoxy paste for semiconductor, microelectronics, and optical assemblies. It can be used in hybrid assemblies for lid-sealing and substrate attach. For opto-packaging, it can be used as the main gasket seal of glass plates in LCDs, or for sealing filter windows onto opto-sensors. A more thixotropic and viscous version of EPO-TEK® B9021.

General Information		
Uses	Electrical/Electronic Applications	
	LCD Applications	
	Optical Applications	
	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
Dry Time	< 1.0	day
Degradation Temperature	307	°C
Die Shear Strength - >4 kg (23°C)	9.38	MPa
Operating Temperature		
Continuous	-55 to 150	°C
Intermittent	-55 to 250	°C
Storage Modulus (23°C)	1.40	GPa
Thixotropic Index	7.10	
Weight Loss on Heating		
200°C	3.4	%
250°C	4.2	%
Thermal	Nominal Value	Unit
Glass Transition Temperature	> 50.0	°C
CLTE - Flow		
-- 1	9.7E-5	cm/cm/°C
-- 2	1.5E-4	cm/cm/°C
Thermoset	Nominal Value	Unit
Shelf Life <sup>3</sup>	52	wk
Uncured Properties	Nominal Value	Unit

Color	Cream	
Density	1.24	g/cm <sup>3</sup>
Viscosity <sup>4</sup> (23°C)	10 to 15	Pa·s
Curing Time		
75°C <sup>5</sup>	0.50	hr
150°C	1.0	hr
Pot Life <sup>6</sup>	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	74	
Lap Shear Strength (23°C)	9.98	MPa
NOTE		
1.	Below Tg	
2.	Above Tg	
3.	Refrigerated	
4.	20 rpm	
5.	B-stage	
6.	Closed Container	

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#### Recommended distributors for this material

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