

EPO-TEK® B9021

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. It can be used as the main gasket seal of glass plates in LCDs or sealing filter windows onto opto-sensors.

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	313	°C
Die Shear Strength - 4 kg (23°C)	9.38	MPa
Operating Temperature		
Continuous	-55 to 160	°C
Intermittent	-55 to 260	°C
Storage Modulus (23°C)	1.58	GPa
Thixotropic Index	1.60	
Weight Loss on Heating		
200°C	3.8	%
250°C	4.4	%
300°C	8.0	%
Thermal	Nominal Value	Unit
Glass Transition Temperature	> 60.0	°C
CLTE - Flow		
-- ¹	3.6E-5	cm/cm/°C
-- ²	5.7E-5	cm/cm/°C
Thermoset	Nominal Value	Unit
Shelf Life ³	52	wk

Uncured Properties	Nominal Value	Unit
Color	White	
Density	1.35	g/cm ³
Viscosity ⁴ (23°C)	4.0 to 8.0	Pa·s
Curing Time		
75°C ⁵	0.50	hr
150°C	1.0	hr
Pot Life ⁶	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	76	
Lap Shear Strength (23°C)	6.80	MPa
NOTE		
1.	Below Tg	
2.	Above Tg	
3.	Refrigerated	
4.	50 rpm	
5.	B-stage	
6.	Closed Container	

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