

EPO-TEK® B9021-6

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. It is a higher viscosity version of EPO-TEK® B9021-1.

General Information		
Uses	Electrical/Electronic Applications	
	Gaskets	
	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	311	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 160	°C
Intermittent	-55 to 260	°C
Storage Modulus (23°C)	1.28	GPa
Thixotropic Index	6.60	
Weight Loss on Heating (200°C)	5.5	%
Thermal	Nominal Value	Unit
Glass Transition Temperature	80.0	°C
CLTE - Flow		
-- 1	3.2E-5	cm/cm/°C
-- 2	3.7E-5	cm/cm/°C
Thermoset	Nominal Value	Unit
Shelf Life ³	52	wk
Uncured Properties	Nominal Value	Unit
Color	Cream	

Density	1.23	g/cm ³
Viscosity ⁴ (23°C)	15 to 32	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)	68	
Lap Shear Strength (23°C)	8.00	MPa
NOTE		
1.	Below Tg	
2.	Above Tg	
3.	Refrigerated	
4.	10 rpm	
5.	Pre-cure	
6.	Closed Container	

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