

EPO-TEK® B9126-8

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, thermally and electrically conductive, epoxy adhesive designed for semiconductor die attach and circuit assembly applications. Its unique features are a pot-life of several days, low temperature cure and syringe dispensing rheology. It can be used for electrical connections when bonding chips, SMDs, PCBs and substrates.

General Information		
Features	Electrically Conductive	
	Thermally Conductive	
Uses	Adhesives	
	Electrical/Electronic Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Physical	Nominal Value	Unit
Ion Type		
Cl-	80	ppm
K+	8	ppm
Na+	23	ppm
NH4+	41	ppm
Particle Size	< 30.0	µm
Degradation Temperature	340	°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)	1.57	GPa
Thixotropic Index	3.20	
Weight Loss on Heating (300°C)	1.1	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 60.0	°C
Thermal Conductivity	1.2	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life ²	52	wk

Uncured Properties	Nominal Value	Unit
Color	Silver	
Density	2.91	g/cm ³
Viscosity ³ (23°C)	11 to 19	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	7200	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	71	
Lap Shear Strength (23°C)	6.76	MPa
Volume Resistivity (23°C)	< 2.0E-4	ohms·cm
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Refrigerated	
3.	20 rpm	

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