

EPO-TEK® B9126-7

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, thermally conductive, electrically insulating epoxy adhesive designed for semiconductor die attach and circuit assembly applications. Its unique features are a low temperature cure and syringe dispensing rheology. It can be used for thermal dissipation when bonding chips, SMDs, PCBs or heat sinks.

General Information		
Features	Electrically Insulating	
	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
Particle Size	< 20.0	µm
Degradation Temperature	381	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	2.85	GPa
Thixotropic Index	2.80	
Weight Loss on Heating		
200°C	0.31	%
250°C	0.78	%
300°C	1.9	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 55.0	°C
CLTE - Flow		
-- ²	6.3E-5	cm/cm/°C
-- ³	2.0E-4	cm/cm/°C
Thermal Conductivity	0.55	W/m/K
Thermoset	Nominal Value	Unit

Shelf Life ⁴	26	wk
Uncured Properties	Nominal Value	Unit
Color	Yellow	
Density	1.32	g/cm ³
Viscosity ⁵ (23°C)	25 to 35	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	4300	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	77	
Lap Shear Strength (23°C)	8.14	MPa
Relative Permittivity (1 kHz)	4.21	
Volume Resistivity (23°C)	> 5.0E+13	ohms·cm
Dissipation Factor (1 kHz)	0.016	
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below T _g	
3.	Above T _g	
4.	Refrigerated	
5.	10 rpm	

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