

EPO-TEK® B9101-2 Unfilled

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, electrically and thermally insulating epoxy designed for adhesive, sealing and potting of micro-electronics and semiconductor devices. It can be used in many industries such as military, automotive, optical or medical electronics.

General Information		
Features	Electrically Insulating	
	Thermally Insulating	
Uses	Adhesives	
	Automotive Applications	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Military Applications	
	Optical Applications	
	Seals	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Processing Method	Potting	
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 80.0	°C
CLTE - Flow		
-- ²	4.6E-5	cm/cm/°C
-- ³	1.9E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ⁴	1.542	
Transmittance		
340 nm	73.0	%
420 to 1600 nm	> 87.0	%
Thermoset	Nominal Value	Unit
Shelf Life ⁵	52	wk
Additional Information	Nominal Value	Unit
Degradation Temperature	340	°C

Die Shear Strength - >20 kg (23°C)	46.9	MPa
Operating Temperature		
Continuous	-55 to 150	°C
Intermittent	-55 to 250	°C
Storage Modulus (23°C)	1.99	GPa
Weight Loss on Heating		
250°C	1.6	%
300°C	2.5	%
Uncured Properties	Nominal Value	Unit
Color	White	
Density	1.19	g/cm ³
Viscosity ⁶ (23°C)	1.0 to 1.3	Pa·s
Curing Time (180°C)	1.0	hr
Pot Life	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	88	
Lap Shear Strength (23°C)	> 13.8	MPa
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	589 nm	
5.	Refrigerated	
6.	100 rpm	

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