

# EPO-TEK® E2101

Epoxy; Epoxide  
Epoxy Technology Inc.

Message:  
EPO-TEK® E2101 is a two component, thixotropic, electrically conductive adhesive. It may be used for circuit assembly and semiconductor applications.

General Information		
Features	Electrically Conductive	
	Low Flow	
	Low to No Outgassing	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Printed Circuit Boards	
Agency Ratings	ASTM E 595	
	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-	27	ppm
K+	1	ppm
Na+	10	ppm
NH4+	80	ppm
Particle Size	< 20.0	µm
Degradation Temperature	401	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	7.26	GPa
Thixotropic Index	3.90	
Weight Loss on Heating		
200°C	0.37	%

250°C	0.61	%	
300°C	0.90	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature <sup>1</sup>	> 90.0	°C	
CLTE - Flow			
-- <sup>2</sup>	4.8E-5	cm/cm/°C	
-- <sup>3</sup>	1.9E-4	cm/cm/°C	
Thermal Conductivity	2.5	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 3.0		
Part B	Mix Ratio by Weight: 1.0		
Shelf Life (23°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- <sup>4</sup>	Silver		
-- <sup>5</sup>	Silver		
Density			
Part A	2.34	g/cm <sup>3</sup>	
Part B	4.57	g/cm <sup>3</sup>	
Viscosity <sup>6</sup> (23°C)	15 to 18	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	7200	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	68		
Lap Shear Strength (23°C)	6.56	MPa	
Volume Resistivity (23°C)	< 5.0E-4	ohms·cm	
NOTE			
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min		
2.	Below Tg		
3.	Above Tg		
4.	Part B		
5.	Part A		
6.	20 rpm		

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