

EPO-TEK® E2001

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® E2001 is a two component, silver-filled, electrically conductive epoxy designed for semiconductor die attach applications using a snap-cure profile.

General Information			
Filler / Reinforcement	Silver		
Features	Electrically Conductive		
Uses	Bonding		
	Electrical/Electronic Applications		
	Printed Circuit Boards		
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	< 45.0	µm	
Degradation Temperature	428	°C	TGA
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)	2.59	GPa	
Thixotropic Index	2.70		
Weight Loss on Heating			
200°C	0.040	%	
300°C	0.22	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 90.0	°C	
CLTE - Flow			
-- ²	5.0E-5	cm/cm/°C	
-- ³	1.2E-4	cm/cm/°C	
Thermal Conductivity	0.93	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			

Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 3.0		
Shelf Life (23°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- 4	Amber		
-- 5	Silver		
Density			
Part B	1.04	g/cm ³	
Part A	2.77	g/cm ³	
Viscosity ⁶ (23°C)	2.0 to 4.1	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	1400	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	78		
Lap Shear Strength (23°C)	9.59	MPa	
Volume Resistivity			
23°C	< 5.0E-4	ohms·cm	
23°C ⁷	7.0E-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.	100 rpm		
7.	200°C/2 min cure		

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