

EPO-TEK® E2001-HV

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® E2001-HV is a snap cure, two component, silver-filled die attach adhesive for semiconductor plastic IC packaging.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Good Adhesion	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
	LEDs	
	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
Ion Type		
Cl-	125	ppm
K+	4	ppm
Na+	6	ppm
NH4+	27	ppm
Particle Size	< 20.0	µm
Degradation Temperature	435	°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)	2.15	GPa
Thixotropic Index	3.90	
Weight Loss on Heating (300°C)	0.23	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 100	°C

CLTE - Flow			
-- ²	2.4E-5	cm/cm/°C	
-- ³	7.7E-5	cm/cm/°C	
Thermal Conductivity	1.1	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	2.66	g/cm ³	
Viscosity ⁶ (23°C)	11 to 14	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	1400	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80		
Lap Shear Strength (23°C)	10.3	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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