

EPO-TEK® E2036

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, slightly flexible, silver-filled, electrically conductive adhesive for semiconductor and electronic assemblies. It is a low Tg epoxy, intended for many kinds of electronics at the PCB level, flex circuitry, or optical and medical devices. It can be used for resisting thermal cycles, high vibration applications or resisting PCB drop tests.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
Uses	Adhesives	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Optical 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
Ion Type		
Cl-	422	ppm
K+	8	ppm
Na+	1	ppm
NH4+	159	ppm
Particle Size	< 20.0	µm
Degradation Temperature	444	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus (23°C)	4.40	GPa
Thixotropic Index	3.95	
Weight Loss on Heating		
200°C	0.13	%
250°C	0.32	%
300°C	0.65	%

Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 30.0	°C
CLTE - Flow		
-- ²	3.9E-5	cm/cm/°C
-- ³	1.8E-4	cm/cm/°C
Thermal Conductivity	1.5	W/m/K
Thermoset	Nominal Value	Unit
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
Color		
-- ⁴	Silver	
-- ⁵	Silver	
Density		
Part A	2.80	g/cm ³
Part B	3.51	g/cm ³
Viscosity ⁶ (23°C)	10 to 20	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	5000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	75	
Lap Shear Strength (23°C)	10.3	MPa
Volume Resistivity (23°C)	< 3.0E-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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