

EPO-TEK® E3037

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, electrically conductive, thixotropic silver-filled epoxy for die-attach and SMD-attach inside hybrid microelectronics.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
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-	187	ppm
K+	3	ppm
Na+	22	ppm
NH4+	65	ppm
Particle Size	< 20.0	µm
Degradation Temperature	358	°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)	5.02	GPa
Thixotropic Index	3.62	
Weight Loss on Heating		
200°C	0.13	%
250°C	0.41	%
300°C	0.80	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 90.0	°C

CLTE - Flow		
-- ²	5.2E-5	cm/cm/°C
-- ³	1.5E-4	cm/cm/°C
Thermal Conductivity	1.6	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	Silver	
Density	3.06	g/cm ³
Viscosity ⁴ (23°C)	22 to 26	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	80	
Lap Shear Strength (23°C)	13.0	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.	10 rpm	

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