

EPO-TEK® E3037-LV

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, silver-filled and electrically conductive adhesive designed for semiconductor die attach and bonding of SMDs for hybrid microelectronic packaging.

Formerly EP108-LV

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
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-	172	ppm
K+	45	ppm
NH4+	65	ppm
Particle Size	< 20.0	µm
Degradation Temperature	342	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 175	°C
Intermittent	-55 to 275	°C
Storage Modulus (23°C)	4.30	GPa
Thixotropic Index	2.85	
Weight Loss on Heating		
200°C	0.16	%
250°C	0.25	%
300°C	0.32	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 90.0	°C
CLTE - Flow		
-- ²	3.5E-5	cm/cm/°C

-- ³	1.2E-4	cm/cm/°C
Thermal Conductivity	0.69	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	Silver	
Density	2.84	g/cm ³
Viscosity ⁴ (23°C)	9.5 to 18	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	30000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	73	
Lap Shear Strength (23°C)	13.6	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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

