

EPO-TEK® EE149-6

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, silver-filled, B-stageable epoxy designed for semiconductor flip chip packaging or hybrid micro-electronic substrate attach or lid-sealing.

General Information		
Filler / Reinforcement	Silver	
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-	4	ppm
K+	5	ppm
Na+	8	ppm
NH4+	10	ppm
Particle Size	< 20.0	µm
Degradation Temperature	380	°C
Die Shear Strength - > 15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	3.77	GPa
Thixotropic Index	4.70	
Weight Loss on Heating		
250°C	0.050	%
300°C	0.16	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 130	°C
CLTE - Flow		
-- ²	3.4E-5	cm/cm/°C
-- ³	1.1E-4	cm/cm/°C

Thermal Conductivity	0.98	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	26	wk
Uncured Properties	Nominal Value	Unit
Color	Silver	
Density	3.26	g/cm ³
Viscosity ⁴ (23°C)	2.0 to 4.0	Pa·s
Curing Time		
70°C ⁵	0.17	hr
180°C	1.0	hr
Pot Life	36000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	74	
Lap Shear Strength (23°C)	3.78	MPa
Volume Resistivity (23°C)	< 5.0E-4	ohms·cm
NOTE		
1.	Dynamic Cure 20-300°C/ISO 25 Min; Ramp -10-300°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	100 rpm	
5.	B-stage	

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