

EPO-TEK® EM127

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® EM127 is a single component, heat curable, electrically conductive epoxy adhesive for semiconductor IC and LED die attach applications.

General Information		
Features	Electrically Conductive	
	Heat Cure	
	Low Viscosity	
	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
Particle Size	< 20.0	µm
Degradation Temperature	380	°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)	4.67	GPa
Thixotropic Index	5.50	
Weight Loss on Heating		
200°C	0.22	%
300°C	0.65	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 65.0	°C
CLTE - Flow		
-- ²	2.8E-5	cm/cm/°C
-- ³	1.2E-4	cm/cm/°C

Thermal Conductivity	1.2	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Shelf Life (-40°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color	Silver		
Density	2.73	g/cm ³	
Viscosity ⁴ (23°C)	2.5 to 3.3	Pa·s	
Curing Time (160°C)	0.50	hr	
Pot Life	40000	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	85		
Volume Resistivity (23°C)	< 9.0E-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.	100 rpm		

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