

EPO-TEK® GE120

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, thixotropic, electrically and thermally insulating epoxy adhesive designed for bonding SMDs to the PCB. It can be used for electronic assembly in many devices including consumer electronics, cell phone, telecommunications, medical, automotive, and scientific/OEM. It is a blue color version of EPO-TEK® 115-SMT.

General Information		
Features	Electrically Insulating	
	Thermally Insulating	
	Thixotropic	
Uses	Adhesives	
	Automotive Applications	
	Bonding	
	Consumer Applications	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Printed Circuit Boards	
	Telecommunications	
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	344	°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)	3.02	GPa
Weight Loss on Heating		
200°C	0.27	%
250°C	1.1	%
300°C	3.0	%
Thermal	Nominal Value	Unit

Glass Transition Temperature ¹	> 65.0	°C
CLTE - Flow		
-- ²	4.1E-5	cm/cm/°C
-- ³	2.2E-4	cm/cm/°C
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	Blue	
Density	1.15	g/cm ³
Viscosity ⁴ (23°C)	200 to 300	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)	10.8	MPa
Relative Permittivity (1 kHz)	3.48	
Volume Resistivity (23°C)	> 7.0E+13	ohms·cm
Dissipation Factor (1 kHz)	7.0E-3	
NOTE		

- | | |
|----|--|
| 1. | Dynamic Cure 20-200°C/ISO 25
Min; Ramp -10-200°C @ 20°C/Min |
| 2. | Below Tg |
| 3. | Above Tg |
| 4. | 1 rpm |

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