

EPO-TEK® EE165-3

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, silver-filled, electrically conductive epoxy made for bonding of SMDs, and general solder replacement at the PCB level and circuit assembly. It was designed to be low modulus and flexible in order to resist PCB drop testing.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Good Flexibility	
	Thixotropic	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
	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	363	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	1.38	GPa
Thixotropic Index	4.80	
Weight Loss on Heating		
200°C	0.26	%
250°C	0.56	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 20.0	°C
CLTE - Flow		
-- ²	3.0E-5	cm/cm/°C

-- ³	2.1E-4	cm/cm/°C
Thermal Conductivity	2.3	W/m/K
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 2.5	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ⁴	Amber	
-- ⁵	Silver	
Density		
Part B	1.06	g/cm ³
Part A	4.02	g/cm ³
Viscosity ⁶ (23°C)	13 to 18	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	600	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	77	
Lap Shear Strength (23°C)	9.60	MPa
Volume Resistivity (23°C)	< 2.0E-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.	Part B	
5.	Part A	
6.	20 rpm	

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