

EPO-TEK® EJ2189

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® EJ2189 is an electrically conductive, silver-filled epoxy paste. This two component system is designed for low temperature curing from ambient to 80 C, although other heat cures can be used.

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Electromagnetic Shielding (EMI)	
	Good Adhesion	
	Radio Frequency Shielding (RFI)	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
	LCD 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-	169	ppm
K+	1	ppm
Na+	15	ppm
NH4+	40	ppm
Particle Size	< 45.0	µm
Degradation Temperature	316	°C
Die Shear Strength - >9 kg (23°C)	21.1	MPa
Operating Temperature		
Continuous	-55 to 160	°C
Intermittent	-55 to 260	°C
Storage Modulus	1.90	GPa
Thixotropic Index	5.20	
Weight Loss on Heating		

200°C	0.31	%
250°C	0.65	%
300°C	1.9	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 30.0	°C
CLTE - Flow		
-- ²	5.3E-5	cm/cm/°C
-- ³	1.1E-4	cm/cm/°C
Thermal Conductivity	1.4	W/m/K
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
Part B	Mix Ratio by Weight: 1.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ⁴	Amber	
-- ⁵	Silver	
Density		
Part B	0.938	g/cm ³
Part A	3.42	g/cm ³
Viscosity ⁶ (23°C)	55 to 90	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	240	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	60	
Lap Shear Strength (23°C)	10.2	MPa
Volume Resistivity		
23°C ⁷	< 5.0E-4	ohms·cm
23°C ⁸	< 5.0E-3	ohms·cm
23°C ⁹	> 7.0E-3	ohms·cm
23°C ¹⁰	< 9.0E-3	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.	1 rpm	
7.	150°C/1 hour cure	
8.	80°C/3 hours cure	

9.	25°C/40-60%RH/3 Day cure
10.	23°C/72 hours cure

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