

EPO-TEK® EJ2189-LV

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

Two component, low viscosity, room temperature curing, conductive epoxy.

General Information		
Features	Conductive	
	Low Viscosity	
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-	201	ppm
K+	2	ppm
Na+	27	ppm
NH4+	53	ppm
Particle Size	< 45.0	µm
Degradation Temperature	340	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 150	°C
Intermittent	-55 to 250	°C
Storage Modulus	1.47	GPa
Thixotropic Index	3.30	
Weight Loss on Heating		
200°C	0.34	%
250°C	0.80	%
300°C	1.6	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 40.0	°C
CLTE - Flow		
-- ²	5.2E-5	cm/cm/°C
-- ³	8.9E-5	cm/cm/°C
Thermal Conductivity	2.0	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	3.06	g/cm ³
Viscosity ⁶ (23°C)	25 to 45	Pa · s
Curing Time (150°C)	1.0	hr
Pot Life	240	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	41	
Lap Shear Strength (23°C)	9.21	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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