

EPO-TEK® E4110-LV

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® E4110-LV is a two component, silver-filled epoxy used in electronic and circuit assembly applications in semiconductor and optical industries.

A low viscosity version of EPO-TEK® E4110.

Formerly EP110-LV

General Information		
Filler / Reinforcement	Silver	
Features	Electrically Conductive	
	Electromagnetic Shielding (EMI)	
	Low to No Outgassing	
	Low Viscosity	
	Radio Frequency Shielding (RFI)	
Uses	Adhesives	
	Electrical/Electronic Applications	
	LEDs	
	Optical Applications	
	Printed Circuit Boards	
Agency Ratings	ASTM E 595	
	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Processing Method	Potting	
Physical	Nominal Value	Unit
Ion Type		
Cl-	332	ppm
K+	0	ppm
Na+	0	ppm
NH4+	27	ppm
Particle Size	< 45.0	µm
Degradation Temperature	365	°C
Die Shear Strength - >5 kg (23°C)	11.7	MPa
Operating Temperature		
Continuous	-55 to 150	°C

Intermittent	-55 to 250	°C
Storage Modulus	5.44	GPa
Thixotropic Index	1.90	
Weight Loss on Heating		
200°C	0.33	%
250°C	0.65	%
300°C	1.2	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 40.0	°C
CLTE - Flow		
-- ²	5.0E-5	cm/cm/°C
-- ³	2.8E-4	cm/cm/°C
Thermal Conductivity	1.8	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	Clear/Transparent	
-- ⁵	Silver	
Density		
Part B	0.958	g/cm ³
Part A	3.09	g/cm ³
Viscosity ⁶ (23°C)	0.35 to 0.85	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	360	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	60	
Lap Shear Strength (23°C)	7.45	MPa
Volume Resistivity		
23°C	< 5.0E-4	ohms·cm
23°C ⁷	< 7.0E-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.	100 rpm	

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