

EPO-TEK® H61-110

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, high Tg, electrically insulating epoxy adhesive for semiconductor, microelectronic, and opto-electronic packaging applications. It is a liquid version of EPO-TEK® H61.

General Information		
Features	Electrically Insulating	
Uses	Adhesives	
	Electrical/Electronic Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Physical	Nominal Value	Unit
Ion Type		
Cl-	12	ppm
K+	15	ppm
Na+	275	ppm
Degradation Temperature	420	°C
Die Shear Strength - > 15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	2.00	GPa
Weight Loss on Heating		
200°C	0.38	%
250°C	0.64	%
300°C	0.84	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 110	°C
CLTE - Flow		
-- ²	4.9E-5	cm/cm/°C
-- ³	1.5E-4	cm/cm/°C
Optical	Nominal Value	
Refractive Index ⁴	1.546	

Thermoset	Nominal Value	Unit
Shelf Life ⁵	26	wk
Uncured Properties	Nominal Value	Unit
Color	Transparent, Light Yellow	
Density	1.22	g/cm ³
Viscosity ⁶ (23°C)	2.0 to 4.0	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	83	
Lap Shear Strength (23°C)	5.23	MPa
Relative Permittivity (1 kHz)	3.63	
Volume Resistivity (23°C)	> 1.0E+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.	589 nm	
5.	Refrigerated	
6.	100 rpm	

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