

EPO-TEK® H61LV

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

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

General Information		
Features	Electrically Insulating	
	Thermally Conductive	
Uses	Adhesives	
	Electrical/Electronic 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-	38	ppm
K+	40	ppm
Na+	239	ppm
NH4+	165	ppm
Particle Size	< 50.0	µm
Degradation Temperature	477	°C
Die Shear Strength - >20 kg (23°C)	46.9	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	6.33	GPa
Thixotropic Index	1.18	
Weight Loss on Heating		
200°C	< 0.050	%
250°C	< 0.050	%
300°C	< 0.050	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 110	°C

CLTE - Flow		
-- ²	3.1E-5	cm/cm/°C
-- ³	9.6E-5	cm/cm/°C
Thermal Conductivity	0.60	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life ⁴	26	wk
Uncured Properties	Nominal Value	Unit
Color	Grey, Light	
Density	2.04	g/cm ³
Viscosity ⁵ (23°C)	20 to 30	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	91	
Lap Shear Strength (23°C)	3.20	MPa
Relative Permittivity (1 kHz)	5.09	
Volume Resistivity (23°C)	> 2.0E+13	ohms·cm
Dissipation Factor (1 kHz)	6.0E-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.	Refrigerated	
5.	10 rpm	

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