

EPO-TEK® H61ND

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.

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-	90	ppm
K+	17	ppm
Na+	142	ppm
NH4+	392	ppm
Particle Size	< 50.0	µm
Degradation Temperature	468	°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)	6.15	GPa
Thixotropic Index	1.30	
Weight Loss on Heating		
200°C	0.080	%
250°C	0.14	%
300°C	0.24	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 100	°C

CLTE - Flow		
-- ²	2.2E-5	cm/cm/°C
-- ³	8.6E-5	cm/cm/°C
Thermal Conductivity	0.80	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life ⁴	26	wk
Uncured Properties	Nominal Value	Unit
Color	Grey, Light	
Density	2.26	g/cm ³
Viscosity ⁵ (23°C)	30 to 50	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	29000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	83	
Lap Shear Strength (23°C)	3.49	MPa
Relative Permittivity (1 kHz)	4.23	
Volume Resistivity (23°C)	> 3.0E+13	ohms·cm
Dissipation Factor (1 kHz)	3.0E-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.	5 rpm	

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