

EPO-TEK® H61

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO-TEK® H61 is a single component, thermally conductive, electrically insulating, epoxy adhesive for semiconductor, hybrid IC, and electronic circuit assembly applications.

General Information			
Features	Electrically Insulating		
	Thermally Conductive		
	Thixotropic		
Uses	Adhesives		
	Bonding		
	Electrical/Electronic Applications		
	Printed Circuit Boards		
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-	41	ppm	
K+	0	ppm	
Na+	140	ppm	
NH4+	354	ppm	
Particle Size	< 50.0	µm	
Degradation Temperature	425	°C	TGA
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)	5.46	GPa	
Thixotropic Index	1.32		
Weight Loss on Heating (200°C)	0.080	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 110	°C	

CLTE - Flow			
-- ²	1.7E-5	cm/cm/°C	
-- ³	9.5E-5	cm/cm/°C	
Thermal Conductivity	0.70	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Shelf Life ⁴	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color	White		
Density	2.39	g/cm ³	
Viscosity ⁵ (23°C)	40 to 60	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	36000	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	89		
Lap Shear Strength (23°C)	7.89	MPa	
Relative Permittivity (1 kHz)	4.75		
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.	5 rpm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

