

EPO-TEK® T6067

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, thermally conductive and electrically insulating epoxy designed for semiconductor die attach and bonding of SMDs for hybrid microelectronic packaging. It can be used for heat sinking, solder dam or dielectric layers in circuit assembly applications.

General Information		
Features	Electrically Insulating	
	Thermally Conductive	
Uses	Adhesives	
	Bonding	
	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-	177	ppm
K+	13	ppm
Na+	24	ppm
NH4+	87	ppm
Particle Size	< 20.0	µm
Degradation Temperature	350	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	4.43	GPa
Weight Loss on Heating		
200°C	0.48	%
250°C	0.71	%
300°C	1.2	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 90.0	°C

CLTE - Flow		
-- ²	1.6E-5	cm/cm/°C
-- ³	6.8E-5	cm/cm/°C
Thermal Conductivity	0.45	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	White	
Density	2.00	g/cm ³
Viscosity ⁴ (23°C)	300 to 400	Pa·s
Curing Time (150°C)	> 1.0	hr
Pot Life	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	84	
Lap Shear Strength (23°C)	10.5	MPa
Relative Permittivity (1 kHz)	4.90	
Volume Resistivity (23°C)	> 6.0E+9	ohms·cm
Dissipation Factor (1 kHz)	4.1E-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.	1 rpm	

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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



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