

EPO-TEK® T6065

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, high Tg, thermally conductive, semiconductor die-attach grade epoxy. It was designed for bonding chips and SMD's inside hybrid micro-electronic packages. Other applications include JEDEC and opto-electronic packaging.

General Information		
Features	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-	135	ppm
K+	6	ppm
Na+	48	ppm
NH4+	105	ppm
Particle Size	< 20.0	µm
Degradation Temperature	397	°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)	5.63	GPa
Thixotropic Index	1.88	
Weight Loss on Heating		
200°C	0.10	%
250°C	0.16	%
300°C	0.30	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 100	°C
CLTE - Flow		

-- ²	3.8E-5	cm/cm/°C
-- ³	1.4E-4	cm/cm/°C
Thermal Conductivity	0.79	W/m/K
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	White	
Density	1.68	g/cm ³
Viscosity ⁴ (23°C)	80 to 120	Pa·s
Curing Time (180°C)	> 1.0	hr
Pot Life	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	92	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	5.30	
Volume Resistivity (23°C)	> 1.2E+14	ohms·cm
Dissipation Factor (1 kHz)	0.011	

NOTE

- | | |
|----|--|
| 1. | Dynamic Cure 20-300°C/ISO 25
Min; Ramp -10-200°C @ 20°C/Min |
| 2. | Below T _g |
| 3. | Above T _g |
| 4. | 2.5 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



WECHAT