

EPO-TEK® 930-4

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® 930-4 is a two component, thermally conductive epoxy, formulated with a very fine boron-nitride filler particle. Also available in a single component frozen syringe.

General Information			
Filler / Reinforcement	Boron Nitride		
Features	Good Adhesion		
	Thermally Conductive		
Uses	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	
Particle Size	< 20.0	µm	
Degradation Temperature	425	°C	TGA
Die Shear Strength - > 15 kg (23°C)	35.2	MPa	
Operating Temperature			
Continuous	-55 to 200	°C	
Intermittent	-55 to 325	°C	
Storage Modulus (23°C)	4.19	GPa	
Thixotropic Index	2.40		
Weight Loss on Heating			
200°C	0.10	%	
250°C	0.33	%	
300°C	0.73	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 90.0	°C	
CLTE - Flow			
-- ²	2.7E-5	cm/cm/°C	
-- ³	1.4E-4	cm/cm/°C	
Thermal Conductivity	1.7	W/m/K	

Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 3.3		
Shelf Life (23°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁴	Amber		
-- ⁵	Ivory		
Density			
Part B	1.02	g/cm ³	
Part A	1.31	g/cm ³	
Viscosity ⁶ (23°C)	12 to 17	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	1400	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	85		
Lap Shear Strength (23°C)	> 13.3	MPa	
Relative Permittivity (1 kHz, 23°C)	3.73		
Volume Resistivity (23°C)	> 2.0E+13	ohms·cm	
Dissipation Factor (1 kHz, 23°C)	4.0E-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.	Part B		
5.	Part A		
6.	20 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