

EPO-TEK® 360

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® 360 is a two component, high-temperature grade epoxy for semiconductor, electronics, fiber optics and medical applications.

General Information			
Features	Autoclave Sterilizable		
	Ethylene Oxide Sterilizable		
	High Heat Resistance		
	Low Viscosity		
	Radiation Sterilizable		
Uses	Adhesives		
	Electrical/Electronic Applications		
	Impregnation Applications		
	Medical/Healthcare Applications		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2003/11/EC		
	EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Forms	Liquid		
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 90.0	°C	
CLTE - Flow			
-- ²	3.9E-5	cm/cm/°C	
-- ³	1.8E-4	cm/cm/°C	
Optical	Nominal Value	Unit	
Refractive Index ⁴	1.535		
Transmittance			
500 nm	> 51.0	%	
600 nm	> 88.0	%	
700 to 1600 nm	> 97.0	%	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 10		
Shelf Life (23°C)	52	wk	

Additional Information	Nominal Value	Unit	Test Method
Degradation Temperature	375	°C	TGA
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)	2.22	GPa	
Weight Loss on Heating			
200°C	0.080	%	
250°C	0.25	%	
300°C	1.1	%	

Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁵	Amber		
-- ⁶	Clear/Transparent		
Density			
Part B	1.02	g/cm ³	
Part A	1.15	g/cm ³	
Viscosity ⁷ (23°C)	0.35 to 0.55	Pa · s	
Curing Time (150°C)	1.0	hr	
Pot Life	360	min	

Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	87		
Lap Shear Strength (23°C)	> 13.8	MPa	
Relative Permittivity (1 kHz)	3.74		
Volume Resistivity (23°C)	> 2.0E+13	ohms · cm	
Dissipation Factor (1 kHz)	0.011		

NOTE	
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min
2.	Below Tg
3.	Above Tg
4.	589 nm
5.	Part B
6.	Part A
7.	100 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

