EPO-TEK® 302-3M-Black

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, room temperature curing, optically opaque epoxy used for electro-optics, medical, fiber optic, circuit assembly, and semiconductor applications. The epoxy is good for adhesive joining, sealing, potting, or as a coating.

General Information			
Uses	Adhesives		
	Coating Applications		
	Electrical/Electronic Applications		
	Medical/Healthcare Applications		
	Optical Applications		
	Seals		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2003/11/EC		
	EU 2006/122/EC		
RoHS Compliance	RoHS Compliant		
Forms	Liquid		
Processing Method	Potting		
Physical	Nominal Value	Unit	
Ion Type			
CI-	42	ppm	
K+	4	ppm	
Na+	10	ppm	
NH4+	1	ppm	
Particle Size	< 20.0	μm	
Degradation Temperature	351	°C	
Die Shear Strength - >10 kg (23°C)	23.4	МРа	
Operating Temperature			
Continuous	-55 to 175	°C	
Intermittent	-55 to 250	°C	
Storage Modulus (23°C)	1.73	GPa	
Weight Loss on Heating			
250°C	0.77	%	
300°C	1.2	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 55.0	°C	

CLTE - Flow			
2	5.6E-5	cm/cm/°C	
3	1.9E-4	cm/cm/°C	
Optical	Nominal Value	Unit	
Transmittance			
900 nm	< 10.0	%	
1320 nm	< 20.0	%	
2500 nm	< 45.0	%	
Thermoset	Nominal Value	Unit	
Thermoset Components			
Part A	Mix Ratio by Weight: 100	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 45		
Shelf Life (23°C)	52	wk	
Uncured Properties	Nominal Value	Unit	
Color			
4	Black		
5	Clear/Transparent		
Density			
Part B	0.958	g/cm³	
Part A	1.20	g/cm³	
Viscosity ⁶ (23°C)	0.80 to 1.6	Pa·s	
Curing Time (65°C)	3.0	hr	
Pot Life	60	min	
Cured Properties	Nominal Value	Unit	
Shore Hardness (Shore D)	80		
Lap Shear Strength (23°C)	> 13.8	MPa	
Relative Permittivity (1 kHz)	3.41		
Volume Resistivity (23°C)	> 5.0E+12	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	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg		
3.	Above Tg		
4.	Part A		
5.	Part B		
6.	20 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

