

EPO-TEK® 330

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® 330 is a two component, high-temperature grade, electrically and thermally insulating epoxy for semiconductor, electronics, fiber optics and medical applications.

General Information			
Features	Autoclave Sterilizable		
	Electrically Insulating		
	Ethylene Oxide Sterilizable		
	High Heat Resistance		
	Low Viscosity		
	Radiation Sterilizable		
	Thermally Insulating		
Uses	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: 10		

Part B	Mix Ratio by Weight: 1.0		
Shelf Life (23°C)	52	wk	
Additional Information	Nominal Value	Unit	Test Method
Degradation Temperature	369	°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)	2.10	GPa	
Weight Loss on Heating			
200°C	0.68	%	
250°C	1.1	%	
300°C	1.8	%	
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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