

EPO-TEK® 375

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® 375 is a two component, high temperature epoxy designed for semiconductor, hybrid, fiber optic, and medical applications. Also available in a single component frozen syringe.

General Information		
Features	Autoclave Sterilizable	
	Biocompatible	
	Ethylene Oxide Sterilizable	
	Good Adhesion	
	High Heat Resistance	
	Radiation Sterilizable	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
	Impregnation Applications	
	Medical/Healthcare Applications	
	Seals	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
	USP Class VI	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Processing Method	Potting	
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 100	°C
CLTE - Flow		
-- ²	4.8E-5	cm/cm/°C
-- ³	1.9E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ⁴	1.569	
Transmittance		
600 to 790 nm	> 94.0	%
800 to 1500 nm	> 98.0	%

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	421	°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)	2.34	GPa	
Weight Loss on Heating			
200°C	0.060	%	
250°C	0.16	%	
300°C	0.49	%	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁵	Amber		
-- ⁶	Clear/Transparent		
Density			
Part B	0.998	g/cm ³	
Part A	1.20	g/cm ³	
Viscosity ⁷ (23°C)	3.0 to 5.0	Pa · s	
Curing Time (150°C)	1.0	hr	
Pot Life	240	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	88		
Lap Shear Strength (23°C)	> 13.8	MPa	
Relative Permittivity (1 kHz)	3.34		
Volume Resistivity (23°C)	> 1.0E+13	ohms · cm	
Dissipation Factor (1 kHz)	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.	589 nm		
5.	Part B		
6.	Part A		
7.	50 rpm		

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