

EPO-TEK® 377

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO-TEK® 377 is a two component, high Tg, fiber optic grade epoxy. It is well suited for semiconductor, medical and optical applications.

General Information		
Features	Autoclave Sterilizable	
	Biocompatible	
	Ethylene Oxide Sterilizable	
	Good Chemical Resistance	
	High Heat Resistance	
	Low to No Outgassing	
	Low Viscosity	
	Radiation Sterilizable	
	Solvent Resistant	
Uses	Bonding	
	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
	Optical Applications	
	Seals	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
	ISO 10993	
	USP Class VI	
RoHS Compliance	RoHS Compliant	
Forms	Liquid	
Processing Method	Encapsulating	
	Potting	
Physical	Nominal Value	Unit
Ion Type		
Cl-	26	ppm
K+	3	ppm
Na+	15	ppm
NH4+	22	ppm

Degradation Temperature	375	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus	2.58	GPa
Weight Loss on Heating		
200°C	0.060	%
250°C	0.17	%
300°C	0.50	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 95.0	°C
CLTE - Flow		
-- ²	5.7E-5	cm/cm/°C
-- ³	2.1E-4	cm/cm/°C
Optical	Nominal Value	Unit
Refractive Index ⁴	1.520	
Transmittance		
600 to 1000 nm	> 90.0	%
1000 to 6800 nm	> 98.0	%
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 1.0	
Part B	Mix Ratio by Weight: 1.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ⁵	Amber	
-- ⁶	Clear/Transparent	
Density		
Part A	1.15	g/cm ³
Part B	1.22	g/cm ³
Viscosity ⁷ (23°C)	0.15 to 0.30	Pa · s
Curing Time (150°C)	1.0	hr
Pot Life	1400	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	67	
Lap Shear Strength (23°C)	10.0	MPa
Relative Permittivity (1 kHz)	3.36	
Volume Resistivity (23°C)	> 1.0E+13	ohms · cm
Dissipation Factor (1 kHz)	5.0E-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.	100 rpm

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