

# EPO-TEK® 360ST

Epoxy; Epoxide

Epoxy Technology Inc.

## Message:

A two component, high-temperature grade, electrically and thermally insulating epoxy for semiconductor, electronics, fiber optics and medical applications. It is a slightly thixotropic paste for non-flow properties.

General Information		
Features	Electrically Insulating	
	High Heat Resistance	
	Thermally Insulating	
	Thixotropic	
Uses	Electrical/Electronic Applications	
	Medical/Healthcare Applications	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Physical	Nominal Value	Unit
Particle Size	< 20.0	µm
Degradation Temperature	344	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 175	°C
Intermittent	-55 to 275	°C
Storage Modulus (23°C)	1.77	GPa
Thixotropic Index	2.60	
Weight Loss on Heating		
200°C	0.88	%
250°C	1.9	%
300°C	4.0	%
Thermal	Nominal Value	Unit
Glass Transition Temperature <sup>1</sup>	> 80.0	°C
CLTE - Flow		
-- <sup>2</sup>	5.1E-5	cm/cm/°C
-- <sup>3</sup>	2.2E-4	cm/cm/°C

Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 10	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- <sup>4</sup>	Amber	
-- <sup>5</sup>	Tan	
Density		
Part B	1.02	g/cm <sup>3</sup>
Part A	1.03	g/cm <sup>3</sup>
Viscosity <sup>6</sup> (23°C)	1.4 to 2.4	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	180	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	85	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	3.58	
Volume Resistivity (23°C)	> 1.8E+13	ohms·cm
Dissipation Factor (1 kHz)	0.012	
NOTE		
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min	
2.	Below Tg	
3.	Above Tg	
4.	Part B	
5.	Part A	
6.	100 rpm	

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#### Recommended distributors for this material

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