

EPO-TEK® OE100-T

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A two component, high Tg, high temperature grade epoxy designed for semiconductor, underfill, hard-disk drive and hybrid micro-electronics packaging applications. The epoxy can also be used for adhesive and sealing applications in electronics, optical, and medical devices.

General Information		
Features	High Heat Resistance	
Uses	Adhesives	
	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	
Physical	Nominal Value	Unit
Particle Size	< 10.0	µm
Degradation Temperature	468	°C
Die Shear Strength - > 10 kg (23°C)	23.4	MPa
Operating Temperature		
Continuous	-55 to 250	°C
Intermittent	-55 to 350	°C
Storage Modulus (23°C)	1.68	GPa
Thixotropic Index	2.90	
Weight Loss on Heating		
200°C	0.38	%
250°C	0.50	%
300°C	0.84	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 100	°C
CLTE - Flow		
-- ²	4.3E-5	cm/cm/°C
-- ³	1.7E-4	cm/cm/°C
Optical	Nominal Value	Unit

Refractive Index ⁴	1.566	
Transmittance		
800 nm	88.0	%
880 to 1600 nm	> 94.0	%
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	
Part B	Mix Ratio by Weight: 1.0	
Shelf Life (23°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color		
-- ⁵	Amber	
-- ⁶	White	
Density		
Part B	1.02	g/cm ³
Part A	1.12	g/cm ³
Viscosity ⁷ (23°C)	4.5 to 7.0	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life	180	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	87	
Lap Shear Strength (23°C)	> 13.8	MPa
Relative Permittivity (1 kHz)	3.08	
Volume Resistivity (23°C)	> 1.0E+13	ohms·cm
Dissipation Factor (1 kHz)	3.0E-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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