

EPO-TEK® OD1001

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A single component, thermally and electrically insulating epoxy designed for low stress semiconductor and electronics packaging. Low Tg, several weeks of pot life and low modulus are a few of its traits. It is particularly suitable for bonding, sealing and potting ferrite cores in power device plastic packaging.

General Information		
Features	Electrically Insulating	
	Thermally Insulating	
Uses	Bonding	
	Electrical/Electronic Applications	
	Seals	
Agency Ratings	EC 1907/2006 (REACH)	
	EU 2003/11/EC	
	EU 2006/122/EC	
RoHS Compliance	RoHS Compliant	
Forms	Paste	
Processing Method	Potting	
Physical	Nominal Value	Unit
Particle Size	< 10.0	µm
Degradation Temperature	355	°C
Die Shear Strength - > 15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 175	°C
Intermittent	-55 to 275	°C
Storage Modulus	1.16	GPa
Thixotropic Index	1.20	
Weight Loss on Heating		
200°C	0.27	%
250°C	0.64	%
300°C	1.5	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 35.0	°C
CLTE - Flow		
-- ²	6.6E-5	cm/cm/°C
-- ³	2.1E-4	cm/cm/°C

Optical	Nominal Value	Unit
Refractive Index ⁴	1.541	
Transmittance (300 to 1200 nm)	< 50.0	%
Thermoset	Nominal Value	Unit
Shelf Life (-40°C)	52	wk
Uncured Properties	Nominal Value	Unit
Color	Cream	
Density	1.13	g/cm ³
Viscosity ⁵ (23°C)	1.0 to 1.5	Pa·s
Curing Time (125°C)	1.0	hr
Pot Life	40000	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	70	
Lap Shear Strength (23°C)	> 12.4	MPa
Relative Permittivity (1 kHz)	3.05	
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 T _g |
| 3. | Above T _g |
| 4. | 589 nm |
| 5. | 100 rpm |

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