

EPO-TEK® TD1001

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® TD1001 is a single component, thermally conductive, electrically insulating epoxy designed for low stress semiconductor and electronics packaging.

General Information		
Features	Electrically Insulating	
	Good Adhesion	
	Thermally Conductive	
	Thixotropic	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic 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	436	°C
Die Shear Strength - > 15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 225	°C
Intermittent	-55 to 325	°C
Storage Modulus (23°C)	1.98	GPa
Thixotropic Index	4.10	
Weight Loss on Heating		
200°C	< 0.050	%
250°C	0.14	%
300°C	0.44	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 40.0	°C
CLTE - Flow		
-- ²	5.7E-5	cm/cm/°C

-- ³	2.1E-4	cm/cm/°C	
Thermal Conductivity	0.77	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Shelf Life (-40°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color	White		
Density	1.20	g/cm ³	
Viscosity ⁴ (23°C)	10 to 22	Pa·s	
Curing Time (125°C)	> 1.0	hr	
Pot Life	40000	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	85		
Lap Shear Strength (23°C)	> 13.8	MPa	
Relative Permittivity (1 kHz)	3.12		
Volume Resistivity (23°C)	> 2.0E+13	ohms·cm	
Dissipation Factor (1 kHz)	0.010		
NOTE			
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min		
2.	Below Tg		
3.	Above Tg		
4.	5 rpm		

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