

EPO-TEK® TZ101

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO-TEK® TZ101 is a single component, electrically insulating, thermally conductive epoxy adhesive designed for heat-sinking of semiconductors, hybrids, electronics, and optics. Also available in a frozen syringe.

General Information		
Features	Electrically Insulating	
	Thermally Conductive	
	Thixotropic	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
	Optical 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
Ion Type		
Cl-	240	ppm
K+	8	ppm
Na+	188	ppm
NH4+	19	ppm
Particle Size	< 20.0	µm
Degradation Temperature	355	°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)	3.54	GPa
Thixotropic Index	3.70	
Weight Loss on Heating		
200°C	0.40	%
250°C	0.90	%

300°C	1.9	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature ¹	> 40.0	°C	
CLTE - Flow			
-- ²	3.2E-5	cm/cm/°C	
-- ³	1.7E-4	cm/cm/°C	
Thermal Conductivity	0.93	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	1.37	g/cm ³	
Viscosity ⁴ (23°C)	24 to 30	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	40000	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	84		
Lap Shear Strength (23°C)	11.9	MPa	
Relative Permittivity (1 kHz)	3.80		
Volume Resistivity (23°C)	> 2.0E+13	ohms·cm	
Dissipation Factor (1 kHz)	4.0E-3		
NOTE			
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -40-200°C @ 20°C/Min		
2.	Below Tg		
3.	Above Tg		
4.	10 rpm		

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