

EPO-TEK® T7109

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

EPO-TEK® T7109 is a two component, thermally conductive epoxy designed for die attach and heat-sinking applications found in the semiconductor, hybrid, medical and optical industries.

General Information		
Features	Good Adhesion	
	Thermally Conductive	
	Thixotropic	
Uses	Adhesives	
	Electrical/Electronic Applications	
	LCD Applications	
	Medical/Healthcare 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
Particle Size	< 20.0	µm
Degradation Temperature	377	°C
Die Shear Strength - >15 kg (23°C)	35.2	MPa
Operating Temperature		
Continuous	-55 to 200	°C
Intermittent	-55 to 300	°C
Storage Modulus (23°C)	1.78	GPa
Thixotropic Index	1.79	
Weight Loss on Heating		
200°C	0.020	%
250°C	0.25	%
300°C	0.98	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	> 45.0	°C
CLTE - Flow		

-- ²	4.6E-5	cm/cm/°C	
-- ³	2.4E-4	cm/cm/°C	
Thermal Conductivity			
-- ⁴	0.70	W/m/K	
-- ⁵	1.5	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
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	Test Method
Color			
-- ⁶	Amber		
-- ⁷	White		
Density			
Part B	1.02	g/cm ³	
Part A	1.33	g/cm ³	
Viscosity ⁸ (23°C)	14 to 20	Pa·s	
Curing Time (150°C)	1.0	hr	
Pot Life	240	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	83		
Lap Shear Strength (23°C)	> 13.8	MPa	
Relative Permittivity (1 kHz)	3.50		
Volume Resistivity (23°C)	> 8.0E+12	ohms·cm	
Dissipation Factor (1 kHz)	4.0E-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.	40 mil		
5.	3 mil		
6.	Part B		
7.	Part A		
8.	20 rpm		

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