

EPO-TEK® T7109-17

Epoxy; Epoxide
Epoxy Technology Inc.

Message:
EPO-TEK® T7109-17 is a flexible, thermally conductive, electrically insulating epoxy paste designed for low stress and heat dissipation applications within the semiconductor, hybrid, electronic and optical industries. It is a replacement for EPO-TEK® T7109-14.

General Information		
Features	Electrically Insulating	
	Good Adhesion	
	Good Flexibility	
	Thermally Conductive	
Uses	Adhesives	
	Bonding	
	Electrical/Electronic Applications	
	LCD Applications	
	Optical Applications	
	Printed Circuit Boards	
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	317	°C
Die Shear Strength - >2.8 kg (23°C)	6.56	MPa
Operating Temperature		
Continuous	-55 to 150	°C
Intermittent	-55 to 250	°C
Storage Modulus (23°C)	17.9	MPa
Thixotropic Index	2.30	
Weight Loss on Heating		
200°C	0.67	%
250°C	1.2	%
300°C	3.1	%
Thermal	Nominal Value	Unit

Glass Transition Temperature ¹	< 20.0	°C	
CLTE - Flow			
-- ²	4.8E-5	cm/cm/°C	
-- ³	1.8E-4	cm/cm/°C	
Thermal Conductivity	0.50	W/m/K	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 10		
Part B	Mix Ratio by Weight: 3.0		
Shelf Life (23°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ⁴	Clear/Transparent		
-- ⁵	Grey		
Density			
Part B	1.08	g/cm ³	
Part A	1.34	g/cm ³	
Viscosity ⁶ (23°C)	30 to 70	Pa · s	
Curing Time (80°C)	> 2.0	hr	
Pot Life	120	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	83		
Lap Shear Strength (23°C)	3.96	MPa	
Relative Permittivity (1 kHz)	6.10		
Volume Resistivity (23°C)	> 1.0E+10	ohms · cm	
Dissipation Factor (1 kHz)	0.15		
NOTE			
1.	Dynamic Cure 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min		
2.	Below Tg		
3.	Above Tg		
4.	Part B		
5.	Part A		
6.	5 rpm		

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