

# EPO-TEK® T7110

Epoxy; Epoxide  
Epoxy Technology Inc.

Message:  
EPO-TEK® T7110 is a two component, thermally conductive, electrically insulating epoxy designed for heat sinking electronics and semiconductors. It may be used as an adhesive, potting, or encapsulation material, for industries such as consumer, medical or optics.

General Information			
Features	Electrically Insulating		
	Low Viscosity		
	Thermally Conductive		
Uses	Adhesives		
	Consumer Applications		
	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		
Processing Method	Encapsulating		
	Potting		
Physical	Nominal Value	Unit	
Particle Size	< 50.0	µm	
Degradation Temperature	314	°C	TGA
Die Shear Strength - > 10 kg (23°C)	23.4	MPa	
Operating Temperature			
Continuous	-55 to 150	°C	
Intermittent	-55 to 250	°C	
Storage Modulus (23°C)	5.44	GPa	
Thixotropic Index	2.20		
Weight Loss on Heating			
200°C	0.40	%	
250°C	0.66	%	

300°C	1.8	%	
Thermal	Nominal Value	Unit	
Glass Transition Temperature <sup>1</sup>	> 40.0	°C	
CLTE - Flow			
-- <sup>2</sup>	3.1E-5	cm/cm/°C	
-- <sup>3</sup>	1.4E-4	cm/cm/°C	
Thermal Conductivity	1.0	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			
-- <sup>4</sup>	Clear/Transparent		
-- <sup>5</sup>	Grey		
Density			
Part B	0.918	g/cm³	
Part A	2.27	g/cm³	
Viscosity <sup>6</sup> (23°C)	1.4 to 2.2	Pa·s	
Curing Time (80°C)	> 2.0	hr	
Pot Life	210	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	91		
Lap Shear Strength (23°C)	> 13.3	MPa	
Relative Permittivity (1 kHz)	5.69		
Volume Resistivity (23°C)	> 2.0E+13	ohms·cm	
Dissipation Factor (1 kHz)	9.0E-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.	Part B		
5.	Part A		
6.	100 rpm		

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