

EPO-TEK® T7109-18

Epoxy; Epoxide

Epoxy Technology Inc.

Message:

A flexible, electrically insulating epoxy paste designed for low stress and heat dissipation applications. Alternative to EPO-TEK® T7109-17.
Formerly 52-183M

General Information		
Features	Electrically Insulating Good Flexibility	
Uses	Adhesives	
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	294	°C
Die Shear Strength - >1 kg (23°C)	2.34	MPa
Operating Temperature		
Continuous	-55 to 125	°C
Intermittent	-55 to 225	°C
Storage Modulus (23°C)	9.87	MPa
Thixotropic Index	2.20	
Weight Loss on Heating		
200°C	0.50	%
250°C	1.2	%
300°C	4.5	%
Thermal	Nominal Value	Unit
Glass Transition Temperature ¹	< 5.00	°C
CLTE - Flow		
-- ²	6.8E-5	cm/cm/°C
-- ³	2.0E-4	cm/cm/°C
Thermal Conductivity	0.20	W/m/K
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 10	

Part B	Mix Ratio by Weight: 2.0	
Shelf Life (23°C)	26	wk
Uncured Properties	Nominal Value	Unit
Color		
-- 4	Clear/Transparent	
-- 5	Grey	
Density		
Part B	1.07	g/cm ³
Part A	1.86	g/cm ³
Viscosity ⁶ (23°C)	6.5 to 11	Pa·s
Curing Time (80°C)	> 2.0	hr
Pot Life	90	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	69	
Lap Shear Strength (23°C)	1.50	MPa
Relative Permittivity (1 kHz)	5.63	
Volume Resistivity (23°C)	> 5.0E+9	ohms·cm
Dissipation Factor (1 kHz)	0.070	
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.	20 rpm	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

