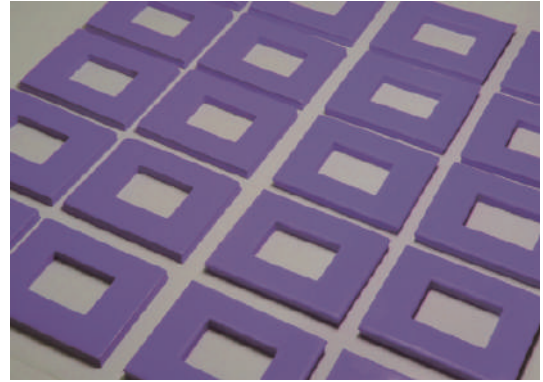


T-work8000

Ultra Soft Thermal Conductivity Gap Filler

Ultra Soft & High Thermal Conductivity interface materials.

LiPOLY T-work 8000 is a highly conformable , ultra soft , high thermally conductive , non-flammable interface materials. It is excellent for filling small air gaps , making reliable contact with heat source & sink.



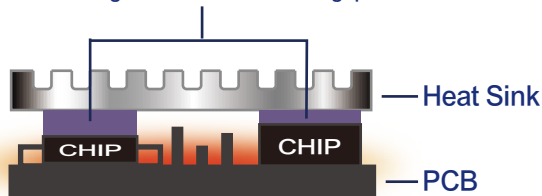
Applications-

- Between CPU and heat sink.
- Between a component and heat sink.
- Flat-panel displays
- Power supplies
- High speed mass storage drives
- Telecommunication hardware

Construction-

Series	Characteristics	Configurations
T-work8000	Silicone compound with weak sticky surfaces.	Sheets form, Die-cuts parts

Ultra soft high thermal conductive gap filler



T-work8000 provides excellent compression and extremely low thermal resistance in form sharp with high thermal conductivity for gap filling between electrical component and heat sink, shielding metals.

Thermal Impedance&Compression-

Compression Force(psi)	Thermal Impedance (K-in ² /W)			Compression (%)		
	1.0mm T	2.0 mm T	3.0 mm T	1.0mm T	2.0 mm T	3.0 mm T
10	0.185	0.293	0.335	10	20	41
20	0.122	0.167	0.174	42	60	72
30	0.074	0.106	0.115	64	74	82
40	0.054	0.076	0.083	71	82	87
50	0.046	0.059	0.064	79	86	90

Test method: ASTM D5470

Typical Properties-

Property		TEST METHOD	UNIT
Color	Purple	Visual	-
Surface tack 2-side/1-side	2-side weak	-	-
Thickness	1.0~3.0	ASTM D374	mm
Density	3.3	ASTM D792	g/cm ³
Application temperature	-60~150	-	°C
COMPRESSION			
Deflection @10 psi	10	-	%
Deflection @20 psi	42	-	%
Deflection @30 psi	64	-	%
Deflection @40 psi	71	-	%
Deflection @50 psi	79	-	%
ELECTRICA			
Dielectric breakdown	>12	ASTM D149	KV/mm
Surface resistivity	>10 ¹¹	ASTM D257	Ohm
Volume resistivity	>10 ¹⁰	ASTM D257	Ohm-m
THERMAL			
Thermal Conductivity	15	ASTM D5470	W/m*K
Thermal Conductivity	8.5	ISO 22007-2	W/m*K
Thermal impedance@10 psi	0.185	ASTM D5470	°C-in ² /W
Thermal impedance@20 psi	0.122	ASTM D5470	°C-in ² /W
Thermal impedance@30 psi	0.074	ASTM D5470	°C-in ² /W
Thermal impedance@40 psi	0.054	ASTM D5470	°C-in ² /W
Thermal impedance@50 psi	0.046	ASTM D5470	°C-in ² /W
FLAME RATING			
UL Flammability class	V-0	UL94	-

※These data are provided for reference only. Engineers are reminded to test the material in varied application.

Reliability-

Test Property	Compression Force (psi)	70°C				
		Initial	100hrs	250hrs	500hrs	1000hrs
Thermal Resistance	10	0.185	0.183	0.184	0.185	0.187
	30	0.074	0.076	0.076	0.075	0.077
	50	0.046	0.048	0.047	0.046	0.048

Test Property	Compression Force (psi)	150°C				
		Initial	100hrs	250hrs	500hrs	1000hrs
Thermal Resistance	10	0.185	0.186	0.187	0.186	0.187
	30	0.074	0.076	0.077	0.077	0.078
	50	0.046	0.048	0.047	0.047	0.048

Test Property	Compression Force (psi)	60°C/90%RH				
		Initial	100hrs	250hrs	500hrs	1000hrs
Thermal Resistance	10	0.185	0.186	0.185	0.184	0.183
	30	0.074	0.076	0.077	0.076	0.075
	50	0.046	0.047	0.046	0.045	0.045

Test Property	Compression Force (psi)	-40°C(30min) ↔ +125°C(30min)					
		0 cycles	100 cycles	200 cycles	300 cycles	400 cycles	500 cycles
Thermal Resistance	10	0.185	0.183	0.184	0.186	0.185	0.186
	30	0.074	0.073	0.074	0.077	0.076	0.076
	50	0.046	0.047	0.045	0.048	0.047	0.047

Test Property	Compression Force (psi)	Ultra Low Temp (-60°C)					
		Initial	100hrs	200hrs	300hrs	400hrs	400hrs
Thermal Resistance	10	0.185	0.186	0.185	0.184	0.185	0.186
	30	0.074	0.075	0.075	0.073	0.074	0.075
	50	0.046	0.047	0.046	0.045	0.047	0.047

Test method: ASTM D5470 , Specimen thickness =1.0mm , Unit: K-in²/W