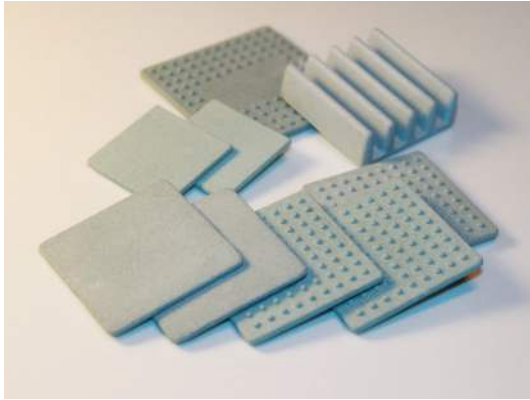


XL-25 with Li-98

Ceramic Heat Spreader with Thermal Tape



XL-25 Features

- Large contact area
- Low weight
- High breakdown voltage
- Excellent heat spreader
- Custom shapes possible

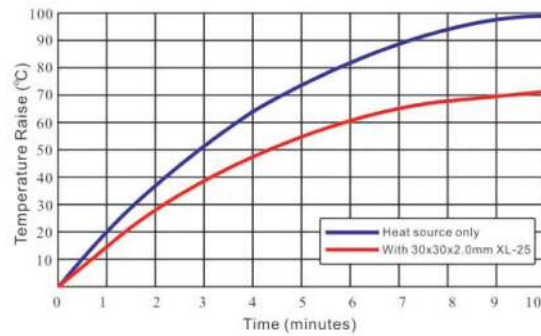
Applications

LED / Notebook PC / M/B / Power Transistor / Power Module / CPU / Chip IC

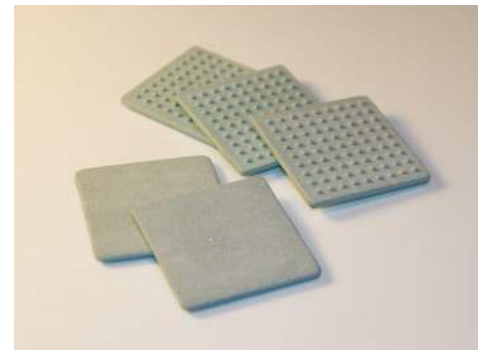
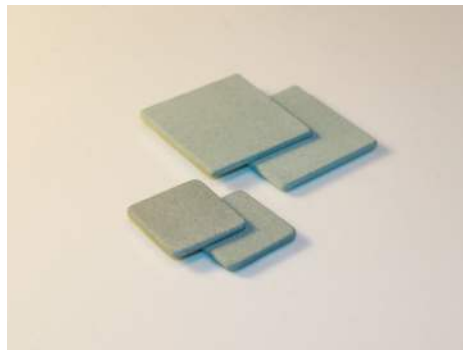
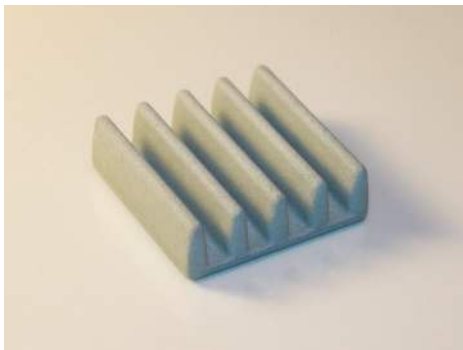
Sizes (mm)

XL-25 30 x 30 x t2.0mm +Li98C
28 x 28 x t0.15mm (With pull tab 5.0mm)

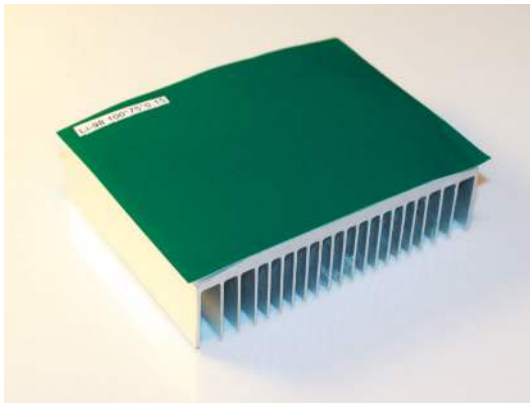
XL-25 20x20xt2.0mm +Li98C
18 x 18 x t0.15mm (With pull tab 5.0mm)



Used examples: Heat sources with XL-25



Property	XL-25	Unit	Test Method
Colour	Grey	-	Visual
Thermal Conductivity	6.79	W/m.k	-
Dielectric Breakdown Voltage	>500	Voltage	ASTM D149
Specific Gravity	1.89	g/cm ³	CNS 619
Surface Resistance	>10 ⁹	Ohm	ASTMD 257
Flexural Strength	47.5	Kgf/cm ²	CNS 12701
Porosity	30	%	CNS 619
Working Temperature	>500	°C	-
Linear Temperature Expansion Coefficient	4.13	10/06/11	RT-300 °C
Main Composition	SiC / Al ₂ O ₃ / SiO ₂	-	-
Hardness	5~6	Moh's	DIN EN101-1992
Shelf Life	12	Months	-



Li-98 Features

Good adhesion
 Very good thermal conductivity
 Highly compressible
 Easy to assemble

Applications

Electronic components: IC / CPU / MOS
 LED / M/B / P/S / Heat Sink / LCD-TV / Notebook PC / PC / Telecom Device /
 Wireless Hub etc....
 DDR II Module / DVD Applications / Hand-Set applications etc...

Properties

Property	Li-98	Li-98C	Li98CN	Unit	Test Method
Thickness	0.15	0.25	0.2	0.18	ASTM D374
Colour	White	White	White	White	Visual
Reinforcement carrier	Fibreglass mesh				
Density	1.85	1.85	1.9	1.8	g/cm ³ ASTM D792
Tensile strength	200	400	200	50	psi ASTM D412
Glass transition temperature	-30	-30	-27	-30	°C
Short time use temperature (30sec)	200	200	200	200	°C
Continuous working temperature	-30 to 120	-30 to 120	-30 to 120	-30 to 120	°C
Thermal conductivity	0.95	0.95	1.8	2	W/mK ASTM D5470
Thermal impedance @ <1psi	1.0	1.8	0.7	0.6	C in 2/W ASTM D5470
Thermal impedance @ 50psi	0.9	1.5	0.5	0.3	C in 2/W ASTM D5470
Initial tack	11	10	14	15	cm PSTC-6
Lap shear strength	61	61	65	55	N/cm ² ASTM D1002
Die shear strength @ 25 °C	120	120	118	100	N/cm ² -
Die shear strength @ 80 °C	69	69	68	55	N/cm ² -
Holding power 1000g @ 25 °C using 1 in ²	>10000	>10000	>10000	>10000	min PSTC-7
Holding power 1000g @ 80 °C using 1 in ²	>10000	>10000	>10000	>10000	min PSTC-7
180° peeling strength (aluminium)	4	5	4	3	N/cm ASTM D3330
Dielectric breakdown voltage (Vac)	>2	>3	>3	>5	kV ASTM D149
Dielectric breakdown voltage (Vdc)	>3	>4	>4	>6	kV ASTM D149

