

# T-GT10

## Instant Attach Graphene Based Thermal Interface Material and Heatspreader

### Features:

- 10-15 W/mK
- Easy Maintenance
- Easy to use
- Sticky surface

### Applications:

IGBT, GPU, CPU, LED, RF, Opto and power module cooling

Order status: Small amount available now (□ 500 pieces)

### Description:

T-GT10 has sticky surface which can be easily applied onto any substrate surface. With a flexible structure, T-GT10 can minimize the contact resistance induced by surface roughness upon small pressures, and thereby leading to superior thermal performance. The effective thermal conductivity of T-GT10 is in the range of 10-15 W/mK. In addition, the T-GT10 has advantages of lightweight, instant use and good maintainability. T-GT10 thus opens new opportunities for addressing large heat dissipation issues in electronics and other high power systems.

Properties	Value		Units	Test Method
Size	□ 4*4		cm <sup>2</sup>	
Thickness	0.25-0.5 (± 15%)		mm	
Roughness	<5		%	
Color	Grey			
Filler Material	Graphene			
Density	0.5-0.8		g/cm <sup>3</sup>	
Compressibility	20-30		%	ASTM
Recovery	15-20		%	ASTM
Compressive Strength	500		KPa	ASTM
Temperature Range	-40 to 200		°C	
Bulk Through-plane Thermal Conductivity	350-450		W/mK	LFA447
Effective Through-plane Thermal Conductivity (applied pressure)	5-10 (100 KPa)	12-15 (300KPa)	W/mK	ASTM
Thermal Resistance (applied pressure)	50-100 (100 KPa)	45-30 (300KPa)	Kmm <sup>2</sup> /W	ASTM
Bulk In-plane (parallel to alignment) Thermal Conductivity	350-450		W/mK	LFA447
Bulk In-plane (perpendicular to alignment) Thermal Conductivity	1-2		W/mK	LFA447
Specific Heat	0.2-0.3		J/g.K	Hotdisk
Minimum tensile strength at in-plane direction	50		KPa	ASTM

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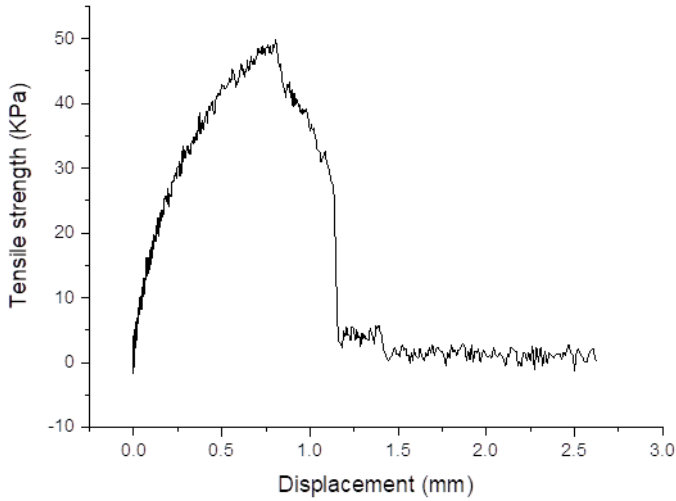
Phone: +46(0)76 948 99 96  
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[www.sht-tek.com](http://www.sht-tek.com)

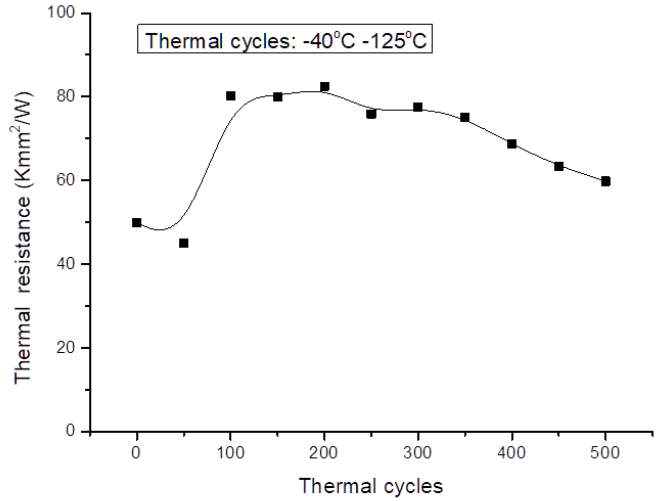
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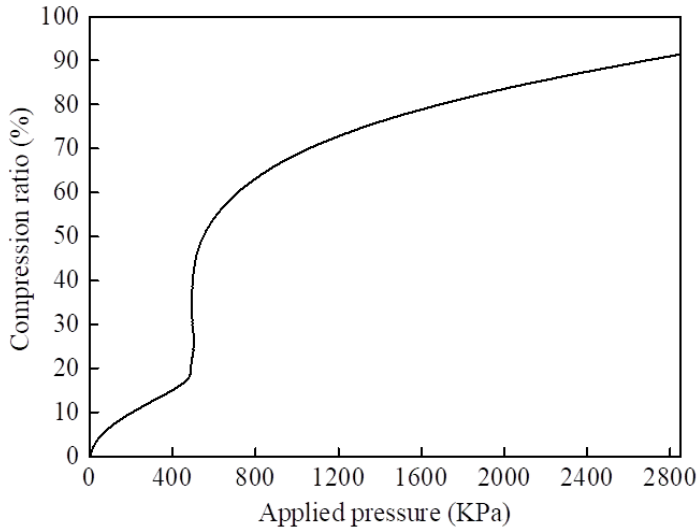
Tensile strength of T-GT10



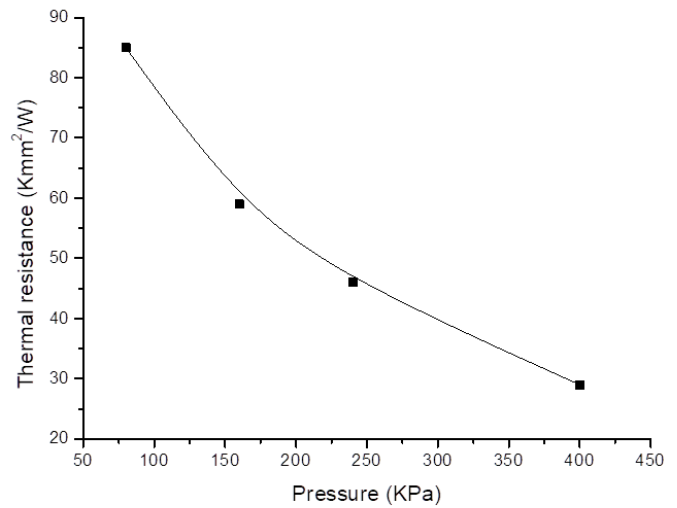
Thermal reliability of T-GT10



Compression ratios of T-GT10 at different pressures:



Thermal resistance curve of T-GT10 (500 μm) at different pressures.



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