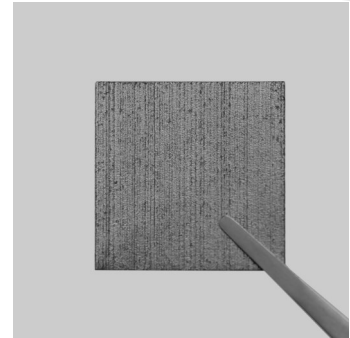


### Features:

- High Thermal Conductivity
- Low Effective Thermal Resistance
- High Compressibility and Ultra Light

### Applications:

IGBT,GPU,CPU,LED,RF Module, 5G devices, Opto and power module cooling



### Description:

GT-25 is a graphene enhanced thermal interface material. It has very low effective thermal resistance (12 kmm<sup>2</sup>/W at 275Kpa). Moreover, the GT-25 has advantages of low density, low complexity during assembly and good maintainability. GT-25 opens new opportunities for addressing large heat dissipation issues in electronics and other high power driven systems.

Physical Properties	Value	Units	Test Method
Thermal Conductivity	25 ± 5	W/mK	ASTM5470
	400±50	W/mK	LFA447
Thermal Resistance	12 ± 1 (275KPa, 300µm)	Kmm <sup>2</sup> /W	ASTM5470
Thickness Range for Production	0.25-2*	mm	Micrometer
Thickness Range for Prototype	0.2-0.25 & 2-3**	mm	Micrometer
Thickness Tolerance	3-10***	%	Micrometer
Pad Size	Up to 65*65	mm <sup>2</sup>	-
Compressibility	>50	%	-
Compressive Strength	1200±100 (300µm)	kPa	At 50% compression
Recovery	>70	%	-
Tensile strength	50±20	kPa	Tensile tester
Surface Roughness (Ra)	5±3	µm	Wyko NT1100 optical pro-
Surface Roughness (Rz)	30±15	µm	Wyko NT1100 optical pro-
Temperature Range	-40 to 200	°C	-
Flammability	V-0		UL94
Specific Heat	0.2-0.3	J/g.K	Hotdisk
Density	0.25±0.05	g/cm <sup>3</sup>	Balance and Micrometer
Color	Grey	-	-

Notes:

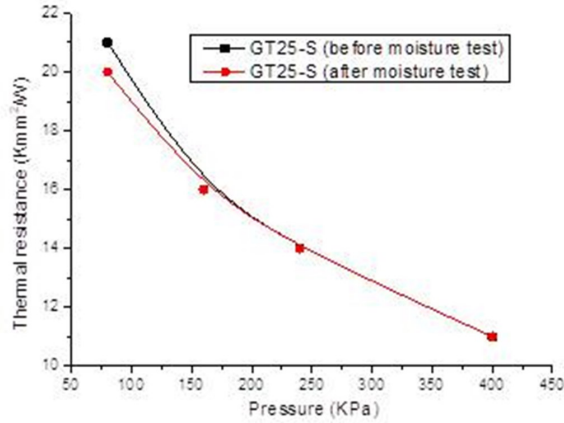
\* Quality is guaranteed for production

\*\* This thickness range is available for prototype.

\*\*\* Price is different depending on the tolerance requested.

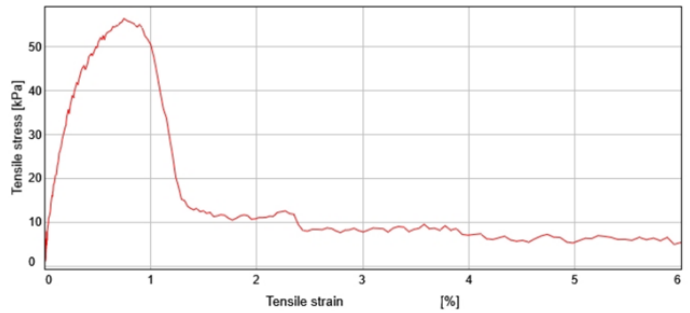
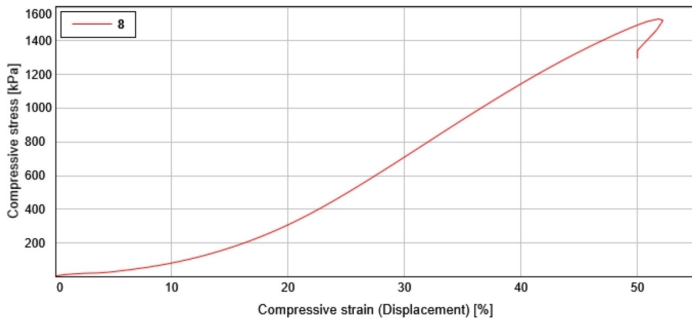
# GT-25

Effective resistance change vs pressure before and after the 85°C/85%Rh testing for a 300µm pad



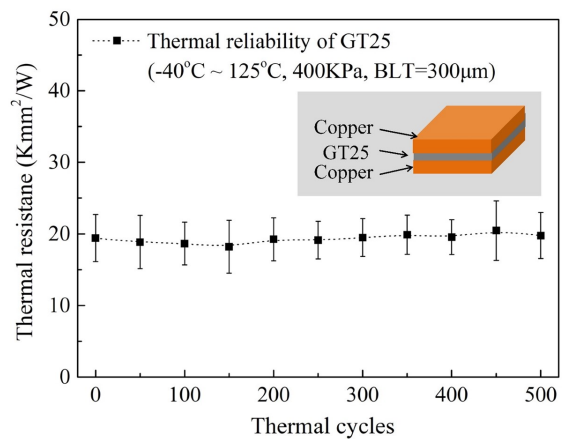
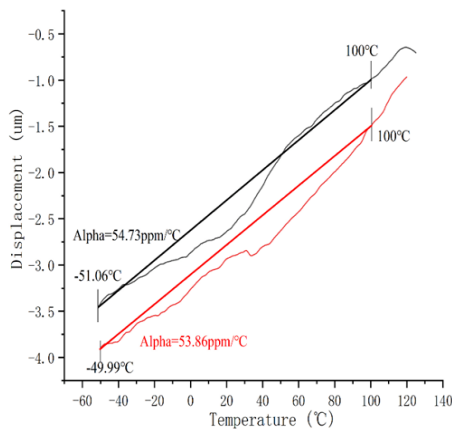
Compressive stress vs strain Curve at 50% compression (300µm)

Tensile strength



Thermal expansion of coefficient change vs temperature

Total resistance change vs number of cycles during temperature cycling for 500 hours



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