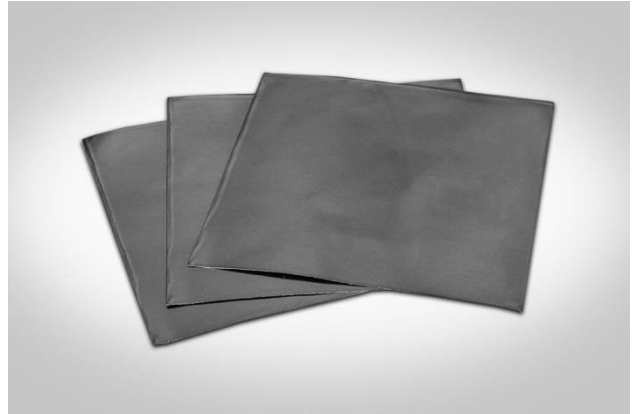


**Synthetic graphite** is applied to a high polymer film. This material forms a large graphene area that has a very high rate of thermal conductivity.

TCGR-900 is a thin coated, pressure-sensitive adhesive tape. The total ultra-thin design is suitable for thin film design, through the heat to heat radiation does not affect the state of graphite layer (metal layer) by thermal conductivity. According to the need of design, the product can be cutted and edged. The product has a good insulation and also a good adhesion in use.

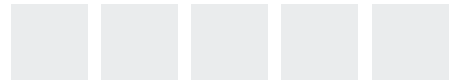
- Excellent thermal conductivity
- Very low heat transfer resistance
- Good compression set
- Excellent processability
- Effectively replace thermal pastes
- Available with our without adhesive



RoHS



REACH



## PRODUCT SPECIFICATIONS

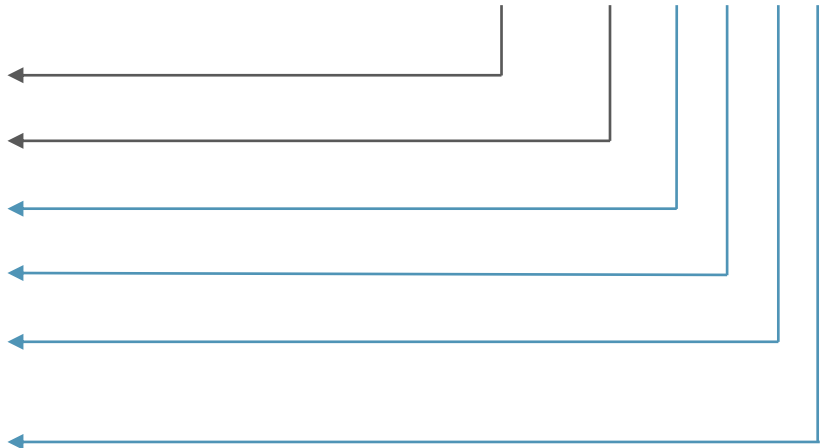
PROPERTY	VALUE / TOLERANCE	TEST METHOD
Composition	Filled graphite	-
Color	Black	Visual
X-Y axis thermal conductivity	40 $\mu\text{m}$ > 900 W/m*K 25 $\mu\text{m}$ > 1.150 W/m*K 17 $\mu\text{m}$ > 1.400 W/m*K	ASTM D5470
Z axis thermal conductivity	40 $\mu\text{m}$ > 12 W/m*K 25 $\mu\text{m}$ > 6 W/m*K 17 $\mu\text{m}$ > 5 W/m*K	ASTM D5470
Graphene thickness (T)	17/25/40 $\mu\text{m}$	ASTM D374
PSA thickness	12 $\mu\text{m}$	ASTM D374
PSA colour	Black	Visual
PSA adhesive force	500 g/25 mm	JIS Z 0237 8
Density	>1,6 g/cm <sup>3</sup>	ASTM D2240
Temperature range	-40 – 250 °C	-
Heat capacity (50°C)	0,84 J/gK	-
Electric conductivity	20.000 S/cm	-
Tensile strength	22 Mpa	ASTM D412
Standard length (L)	100 m	-
Standard width (W)	90/110/120/130/150/165/180 mm	-
Shelf life	6 months @ 21°C	-

Picture only shows an example of graphite foils.

**BUILDING AN ITEM NUMBER**

TCGR-900-LxWxT-X

Thermally Conductive Graphite Foils	
Thermal conductivity	
xx	Length (mm)
xx	Width (mm)
xx	Thickness (mm)
PSA	With PSA (one side adhesive tape)
	Without adhesive tape



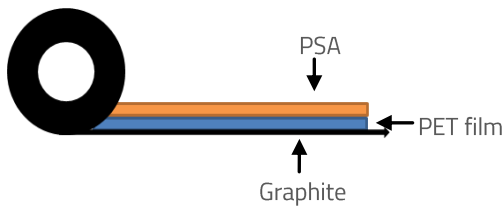
**Standard options**

**EXAMPLE**

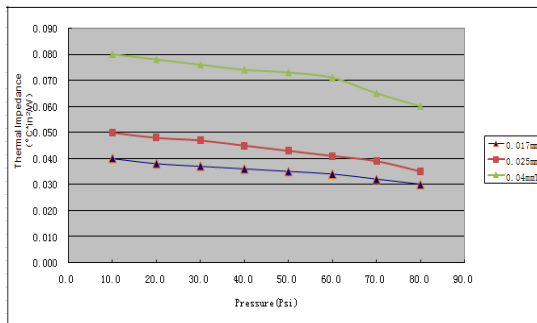
**TCGR-900-100x90x17-PSA**

Thermally conductive graphite foil, thermal conductivity: 900 W/m\*K; length: 100 m, width: 90 mm; thickness: 17 μm; with adhesive tape

**CROSS-SECTION**



**THERMAL IMPEDANCE**



Modifications and errors excepted. The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verifications and testings to determine the suitability for their own particular purpose of any information or products referred to herein.