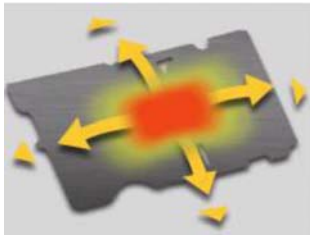




專業導熱材料生產廠  
Professional TIM Manufacturer  
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# TIR™ 200 Series Flexible Graphene Homogeneous Material

TIR™200 Series products is an ultra-thin, lightweight Graphene film with a thermal conductivity at very high level to help release and diffuse the heat generated by major components or heat sources such as CPUs..



### Application

- › PDP,LCD TV,Set top box
- › Laptop,Notebook,Projector
- › Mobile phone,Hand-held devices
- › Automotive electronics

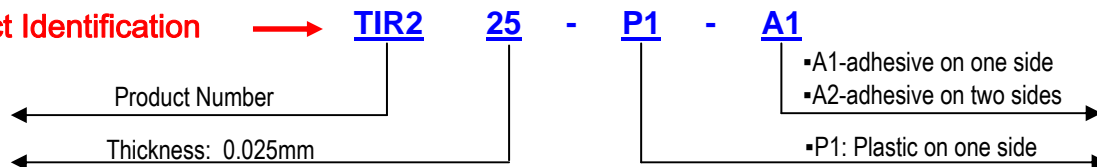
### Feature

- › Good thermal conductive: **1500 W/mK**
- › Easy to assemble
- › Ultra-thin type
- › RoHS Compliant

### Typical Properties of TIR™200 series

Product Name	TIR™217	TIR™225	TIR™250	TIR™270	Test Method
Colour	Black				Visual
Material	Graphene				
Thickness	0.017 mm	0.025 mm	0.05 mm	0.070 mm	ASTM D751
Thickness Tolerance	+/- 10%	+/- 10%	+/- 10%	+/- 10%	ASTM D751
Density	2.0 g/cc	2.0 g/cc	2.0 g/cc	2.0 g/cc	ASTM D297
Hardness	85 Shore A				ASTM D2240
Operation Temperature	-40°C ~400°C				*****
Volume Resistivity	5.2X10 <sup>3</sup> Ohm-meter				ASTM D257
Typical Thermal Conductivity (In Z axis)	5.0W/m-K	6.0 W/m-K	8.0 W/m-K	12 W/m-K	ASTM D5470
Typical Thermal Conductivity (In X-Y axis)	1700 W/m-K	1500 W/m-K	1200 W/m-K	1000 W/m-K	*****
Thermal Resistance @100psi	0.030 (in <sup>2</sup> °C/W)	0.035 (in <sup>2</sup> °C/W)	0.045 (in <sup>2</sup> °C/W)	0.060 (in <sup>2</sup> °C/W)	ASTM D5470

### Product Identification



Describe	Straight	Semi coated	Totally encapsulated
Figure			

### Standard Sheets Sizes :

1. 185mm x 220mm   2. 195mm x 240mm   3. 220mm x 320mm

TIR™ 200 series Individual die cut shapes can be supplied. .

Consult the factory alternate thickness.



Gap Fillers | Phase Change Materials | Thermally Conductive Insulators | Thermally Conductive Greases | Thermally Conductive Adhesive Tapes

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