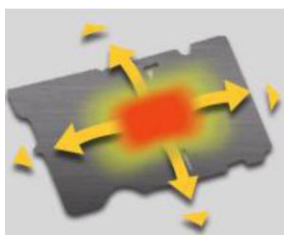


TIR™ 300C Series Carbon nano composite copper foil

TIR™ 300C Series products are a new material with highly effective heat conductivity and absorption, stabilized device function and reduce the chance of malfunction by spreading the high temperature heat radiated from specific parts or devices.



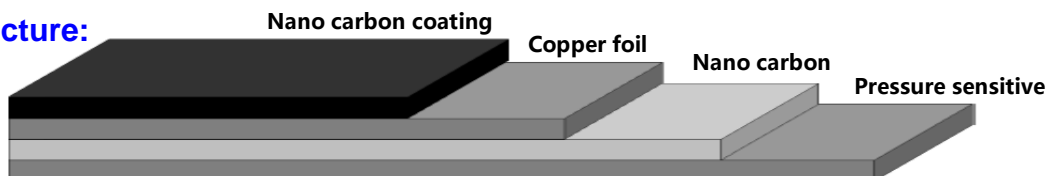
Feature

- › Good thermal conductive: **700 W/mK**
- › Easy to assemble
- › Ultra-thin type
- › RoHS Compliant

Application

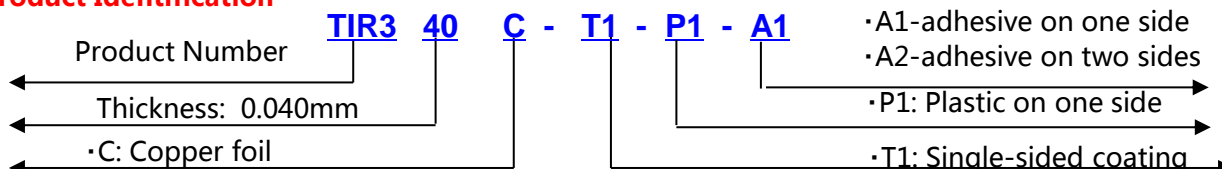
- › PDP, LCD TV, Set top box
- › Laptop, Notebook, Projector
- › Mobile phone, Hand-held devices
- › Automotive electronics

Product structure:



Typical Properties of TIR™300C series				
Product Name	TIR™340C-T2	TIR™360-C-T2	TIR™380-C-T2	Test Method
Colour	Black			Visual
Material	Carbon nano composite copper foil vacuum sputtering			*****
Total Thickness	0.040 mm	0.060 mm	0.080 mm	ASTM D751
Copper foil thickness	0.038 mm	0.057 mm	0.077 mm	ASTM D751
Single-sided coating Thickness	0.0010 mm	0.0015 mm	0.0015 mm	ASTM D751
Thickness Tolerance	+/- 10%	+/- 10%	+/- 10%	ASTM D751
Density	2.7 g/cc	2.7 g/cc	2.7 g/cc	ASTM D297
Hardness	85 Shore A			ASTM D2240
Operation Temperature	-40°C ~ 400°C			*****
Volume Resistivity	5.2X10 ³ Ohm-meter			ASTM D257
Tensile Strength	30 psi	35 psi	40 psi	ASTM D412
Typical Thermal Conductivity (In Z axis)	30 W/m-K	30 W/m-K	30 W/m-K	ASTM D5470
Typical Thermal Conductivity (In X-Y axis)	700 W/m-K	700 W/m-K	700 W/m-K	ASTM D5470
Thermal Resistance @100psi	0.065 (in ² °C/W)	0.079 (in ² °C/W)	0.092 (in ² °C/W)	ASTM D5470

Product Identification



Standard Sheets Sizes : 500mm x 200m

TIR™ 300C 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

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