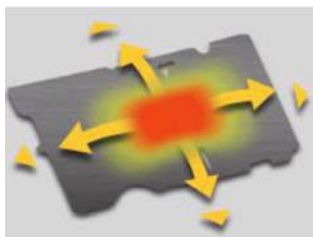




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# TIR™ 300AL Series Carbon nano composite the aluminum foil

TIR™300AL 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.



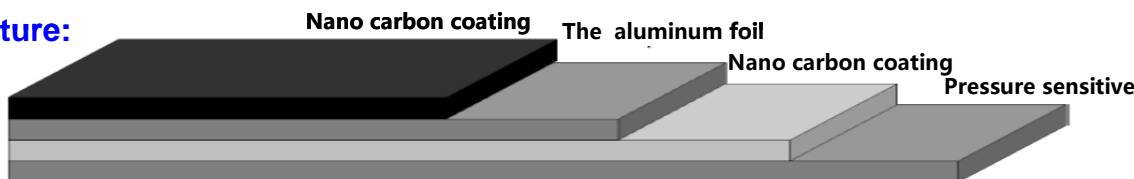
### Feature

- › Good thermal conductive: **450 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

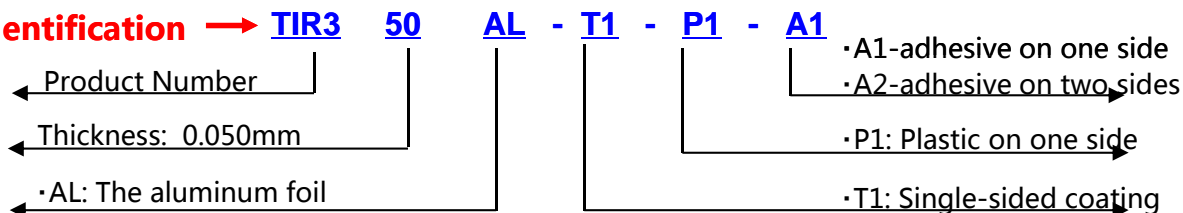
### Product structure:



### Typical Properties of TIR™300AL series

Product Name	TIR™350AL-T2	TIR™380AL-T2	Test Method
Colour	Black		Visual
Material	Carbon nano composite The aluminum foil vacuum sputtering		*****
Total Thickness	0.050 mm	0.080 mm	ASTM D751
The aluminum foil thickness	0.030 mm	0.050 mm	ASTM D751
Single-sided coating Thickness	0.010 mm	0.015 mm	ASTM D751
Thickness Tolerance	+/- 10%	+/- 10%	ASTM D751
Density	2.7 g/cc	2.7 g/cc	ASTM D297
Hardness	85 Shore A		ASTM D2240
Operation Temperature	-40℃ ~400℃		*****
Volume Resistivity	6.2X10 <sup>3</sup> Ohm-meter		ASTM D257
Tensile Strength	30 psi	40 psi	ASTM D412
Typical Thermal Conductivity (In Z axis)	60 W/m-K	60 W/m-K	ASTM D5470
Typical Thermal Conductivity (In X-Y axis)	450 W/m-K	450 W/m-K	ASTM D5470
Thermal Resistance @100psi	0.072 (in <sup>2</sup> ℃/W)	0.105 (in <sup>2</sup> ℃/W)	ASTM D5470

### Product Identification



**Standard Sheets Sizes :** 500mm x 50m

TIR™ 300AL 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

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