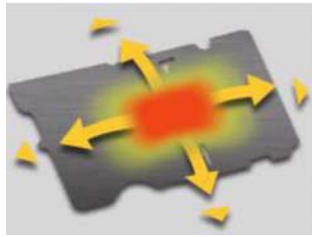


TIR™200CU Series products are a new material with highly effective heat conductivity and absorption, stabilized device function and reduce the chance of malfunction by spreading the high temperature heat radiated from specific parts or devices.



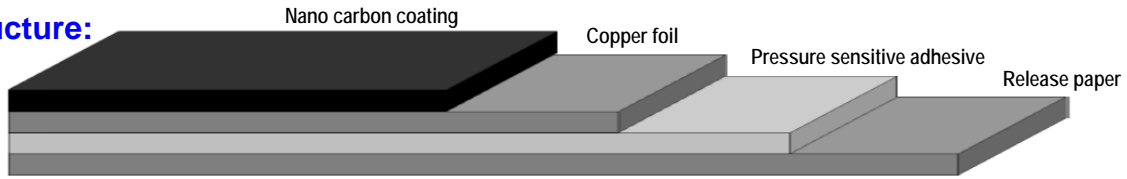
Feature

- › Good thermal conductive: **240 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

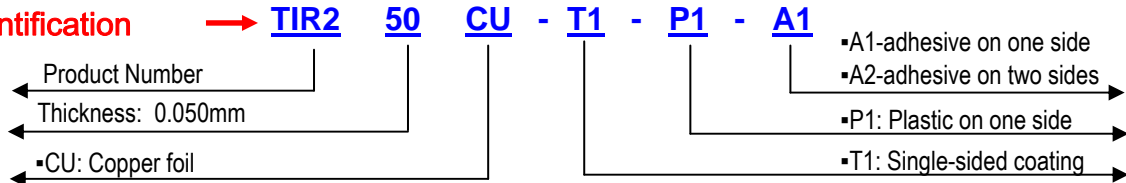
Product structure:



Typical Properties of TIR™200CU series

| Product Name | TIR™250CU | TIR™260CU | TIR™280CU | TIR™2100CU | Test Method |
|--|--------------------------------------|------------------------------|------------------------------|------------------------------|-------------|
| Colour | Black | | | | Visual |
| Material | Copper Composite Carbon Nano Coating | | | | ***** |
| Total Thickness | 0.050 mm | 0.060 mm | 0.080 mm | 0.080 mm | ASTM D751 |
| Copper foil thickness | 0.018 mm | 0.018 mm | 0.035 mm | 0.050 mm | ASTM D751 |
| Single-sided coating Thickness | 0.016 mm | 0.020 mm | 0.020 mm | 0.020 mm | ASTM D751 |
| Pressure sensitive adhesive Thickness | 0.016 mm | 0.022 mm | 0.025 mm | 0.030 mm | ASTM D751 |
| Thickness Tolerance | +/- 10% | +/- 10% | +/- 10% | +/- 10% | ASTM D751 |
| Density | 2.7 g/cc | 2.7 g/cc | 2.7 g/cc | 2.7 g/cc | ASTM D297 |
| Hardness | 85 Shore A | | | | ASTM D2240 |
| Operation Temperature | -40°C ~ 250°C | | | | ***** |
| Volume Resistivity | 2.3X10 ⁶ Ohm-meter | | | | ASTM D257 |
| Tensile Strength | 25 psi | 30 psi | 40 psi | 50 psi | ASTM D412 |
| Typical Thermal Conductivity (In Z axis) | 80 W/m-K | 80 W/m-K | 80 W/m-K | 80 W/m-K | ASTM D5470 |
| Typical Thermal Conductivity (In X-Y axis) | 240 W/m-K | 240 W/m-K | 240 W/m-K | 240 W/m-K | ASTM D5470 |
| Thermal Resistance @100psi | 0.060 (in ² °C/W) | 0.080 (in ² °C/W) | 0.105 (in ² °C/W) | 0.180 (in ² °C/W) | ASTM D5470 |

Product Identification



Standard Sheets Sizes : 500mm x 50m

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

Consult the factory alternate thickness.

