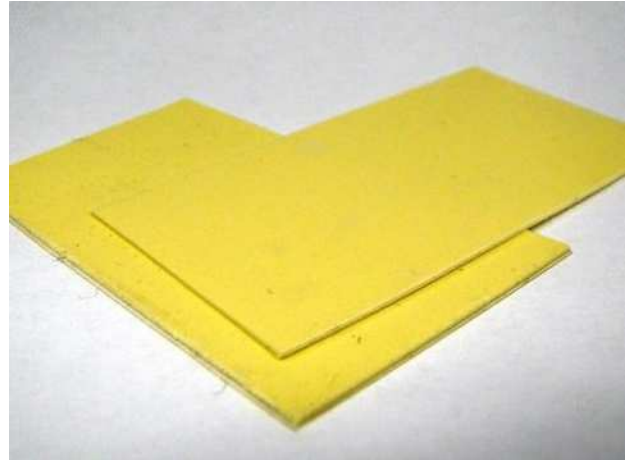


Phase change material is a wax-based thermal interface material. It has a softening temperature of 50 to 60°C.

The liquid phase of the material can fill interface irregularities with much higher efficiency than traditional gap fillers. Thus an optimal heat transfer resistance is ensured.

On the other hand phase change material is solid at room temperature and can be handled easily during assembly.

- Thermal conductivity: 3,0 W/m*K
- Available in 400x300 mm standard sheet size, other dimensions and die-cut parts on request
- Available in thicknesses from 0,05 to 0,5 mm
- Low thermal impedance
- Naturally tacky
- Easy to assemble
- Good electrical isolation
- Very soft with high compressibility



RoHS



REACH



PRODUCT SPECIFICATIONS

| PROPERTY | VALUE / TOLERANCE | TEST METHOD |
|---------------------------|-----------------------|-------------|
| THERMAL | | |
| Thermal conductivity | 3,0 W/m*K | ASTM D5470 |
| ELECTRICAL | | |
| Breakdown voltage | >5.000 V/mm | ASTM D149 |
| Volume resistivity | 10 ¹⁴ Ω*cm | ASTM D257 |
| PHYSICAL | | |
| Phase change temperature | 40 – 130 °C | - |
| Basic material | EPDM | - |
| Gravity | 2,7 g/cm ³ | ASTM D792 |
| Thickness range | 0,05 – 0,5 mm | ASTM D2240 |
| Shelf life° | 12 months | - |
| Working temperature | -40 – +130 °C | - |
| Standart sheet size (LxW) | 400x300mm | - |

BUILDING AN ITEM NUMBER

TCPC-XX-3,0-LxWxT-YYY

Thermally Conductive Phase Change Material

| | |
|-----|----------------|
| FG* | Fiberglass |
| PI* | Polyimide film |
| AL* | Aluminium foil |

*Omit if no special carrier is required

Thermal conductivity

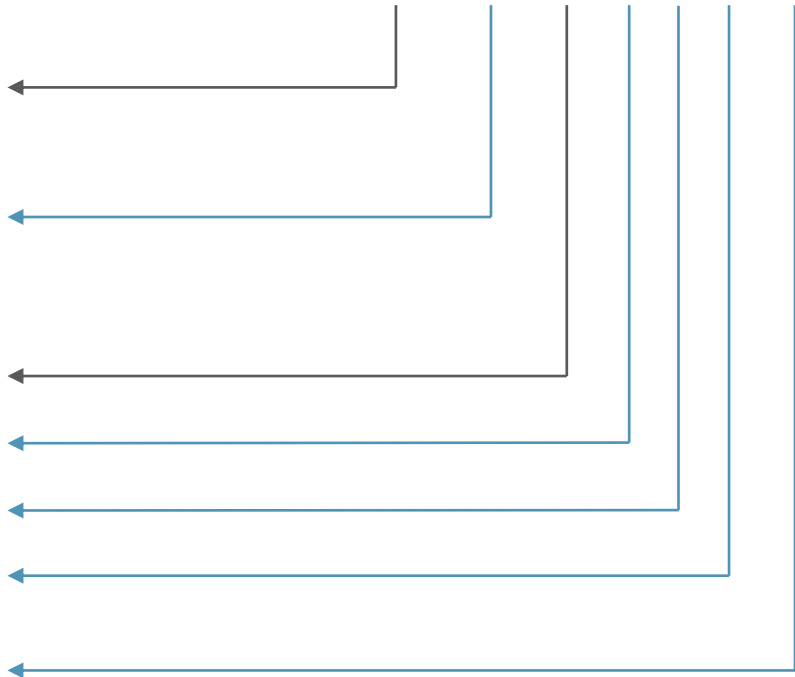
L Length (mm)

W Width (mm)

T Thickness (mm)

DST Die-cut parts

KCT Kiss-cut parts



Standard options

EXAMPLE

TCPC-3,0-25x20x0,5-DST

Thermally conductive phase change material; thermal conductivity: 3 W/m*K; size: 25x20 mm; thickness: 0,05-0,5 mm; die-cut parts

THERMAL IMPEDANCE VS. PRESSURE

