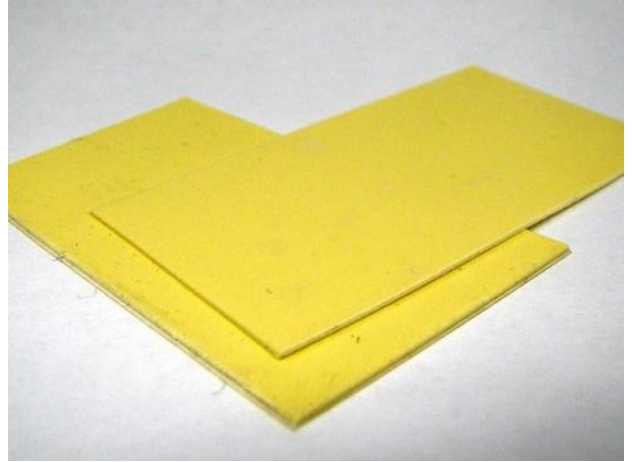


Phase change material is a wax-based thermal interface material. It has a softening temperature of 50 to 60°C.

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: 5,0 W/m*K
- Available in 400x300 mm standard sheet size, other dimensions and die-cut parts on request
- Available in thicknesses from 0,1 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
Basic material	EPDM	-
Thermal conductivity	5,0 W/m*K	ASTM D5470
Volume resistivity	10 ⁷ Ω*cm	ASTM D257
Phase change temperature	50 – 60 °C	-
Temperature range	-40 – +130 °C	-
Thickness range (T)	0,1 – 0,5 mm	ASTM 2240
Standard sheet size (LxW)	400x300 mm	-
Breakdown voltage	With polyimide film >600 V/mm 3.000 V/mm	ASTM D149
Density	2,3 g/cm ³	ASTM D792
Colour	Black	Visual
Shelf life°	12 months	-

°From date of receipt by the customer when stored at 23°C / 60%rH

Please note: Picture only shows an example of a phase change material.

Modifications and errors excepted. The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verifications and testings to determine the suitability for their own particular purpose of any information or products referred to herein.

BUILDING AN ITEM NUMBER

TCPC-XX-5,0-LxWxT-YYY

Thermally Conductive Phase Change Material

FG*	Fiberglass
PI*	Polyimide film
AL*	Aluminium foil

*Omit if no special carrier is required

Thermal conductivity

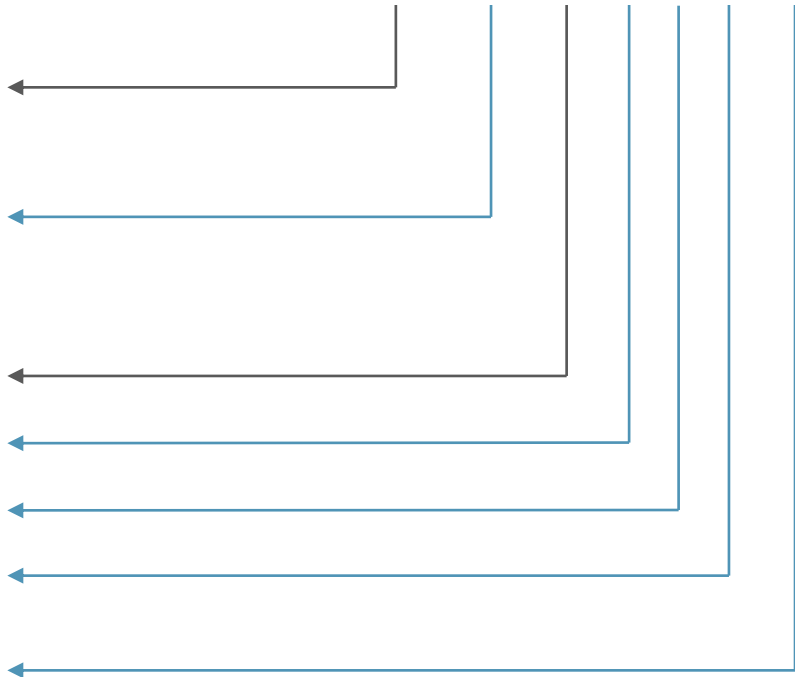
L Length (mm)

W Width (mm)

T Thickness (mm)

DST Die-cut parts

KCT Kiss-cut parts



Standard options

EXAMPLE

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

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

THERMAL IMPEDANCE VS. PRESSURE

