

## THERMAL PHASE CHANGE

### MPC Series

Bridging the gap between a Thermal Paste and Solid filler pad a phase change material is an ideal material. At room temperature it is a solid filler pad but when its transition temperature is reached it softens or melts and behaves more like a paste/grease. There are two types of materials, waxed based type and elastomer type. The wax based material has good wetting characteristics and low viscosity the material is ideal to fill any microscopic surface irregularities resulting in very low thermal resistance. It does not dry out, separate or settle. The wax type is available in two thermal conductivities, 4.0/mk and a high performance type 8.0 W/mk. The elastomer type has good compressibility.

Due to the physical characteristics of phase change material it is easier to handle and process than paste/grease and yet still offer good thermal conductivity with low thermal resistance.

Can be supplied Die cut to customers specification.

Specification	MPC25	MPC801	MPC315
Thickness (mm)	0.25	0.20	0.13
Material type	Wax	Wax	Elastomer
Thermal Conductivity (W/m.k)	4.0	8.0	5.0
Thermal Resistance (°C-cm <sup>2</sup> /W 31mm sq @40psi)	0.155	0.07	0.208
Transition Temperature (°C)	45	46	45
Continuous Temperature (°C)	+125	+125	~+125
Sheet size (mm)	130x310	200x150	465x300
Colour	Grey	Grey	Grey

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