

Keratherm® - Softtherm® 86/120

This Softtherm® material is a good alternative if you are looking for a high insulation, a very good compressibility and a good thermal conductivity.

Applications:

- RD-RAM memory modules
- Heat pipe thermal solutions
- Automotive engines
- Control units
- Plasma supply console

Properties	Unit	86/120
Colour		green
Thermal properties		
Thermal resistance R_{th}	K/W	0.83
Thermal impedance R_{ti}	°Cmm ² /W Kin ² /W	302 0.47
Thermal conductivity	W/mK	1.5
Electrical properties		
Breakdown voltage $U_{d, ac}$	kV	4
Dielectric breakdown $E_{d, ac}$	kV/mm	8
Volume resistivity	m	1.0×10^{11}
Dielectric loss factor tan	1	8.0×10^{-3}
Dielectric constant ϵ_r	1	3.5
Mechanical properties		
Measured thickness (+/-10%)	mm	0.5
Hardness	Shore 00	30 - 45
Youngs modulus *	N/cm ²	111
Physical properties		
Density	g/cm ³	2.3
Application temperature	°C	-40 to +150
TML	Ma.-%	< 0.18
Flame rating	UL	-
Possible thickness**	mm	0.5 - 5.0

*Youngs modulus sample size 30mmx30mmx2.5mm; variable contact pressure; compression 50% of the measured thickness

**details see page 44

Compressibilities of Softtherm® 86/120

