DATASHEET

KERAFOL®

Softtherm®: 86/125 & 86/250

Softtherm 86/125 and 86/250 have an improved thermal performance without any effect on the dielectric and mechanical properties. 86/125 is a single layer, up to a thickness of 4.0 mm and supported with a fiberglass reinforcement.

APPLICATIONS

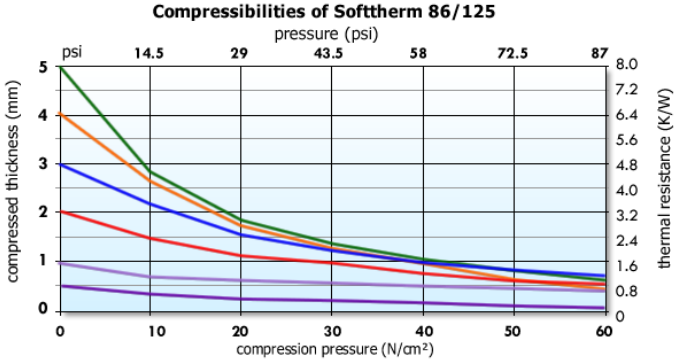
- RD-RAM Memory Module
- Heat Pipe Thermal Solutions
- Automotive Engine
- Control Units
- Plasma Supply Console

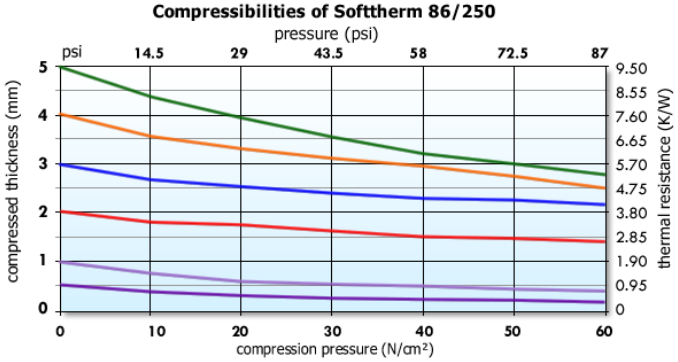
Available with Optional Adhesive!

* **Available Thicknesses:** 0.5 – 5.0 mm

Properties *symbol*	**unit**	**86/125**	**86/250**
Color		deep orange	white/red
Thermal Properties			
Thermal Resistance R_{th}	K/W	0.80	0.95
Thermal Impedance R_{ti}	°Cmm²/W Kin²/W	322 0.50	385 0.60
Thermal Conductivity λ	W/mK	1.5	1.3
Electrical Properties			
Breakdown Voltage $U_{d;ac}$	kV	6.0	8.0
Dielectric Breakdown $E_{d;ac}$	kV/mm	12	16
Volume Resistivity	Ωm	61.3 x 10^{9}	1.0 x 10^{11}
Dielectric Loss Factor tan δ	1	0.153	2.5 x 10^{-3}
Dielectric Constant ε_r	1	4.28	3.8
Mechanical Properties			
Measured Thickness (±10%)	mm	2.0	0.5
Hardness	Shore A	10 - 20	45 - 55
Youngs Modulus **	N/cm²	23.6	15
Physical Properties			
Density	g/cm³	2.0	1.76
Application Temperature	°C	-40 to +180	-60 to +200
Total Mass Loss (TML)	Ma.-%	< 0.29	< 0.42
Flame class	UL	94V-0	94V-1

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





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