DATASHEET

KERAFOL®

Softtherm® Standard: **86/200 & 86/210lb**

A group of highly elastic, ceramic-filled films. They are characterized by their excellent compressibility, their optimum plasticity with good thermal conductivity and good electrical properties. These films are especially suitable for compensating differences in planarity of the components or pressure sensitive applications.
The film type 86/210lb is also characterized by its optimized outgassing and low bleeding behaviour.

APPLICATIONS

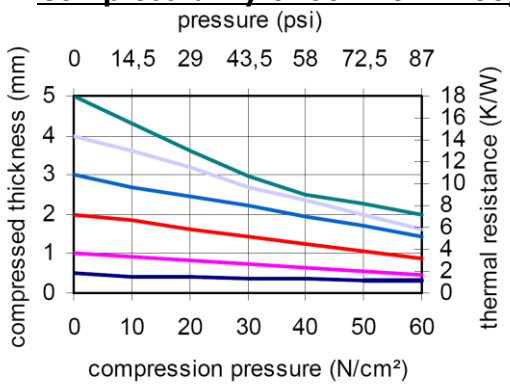
- RD-RAM Memory Module
- Heat Pipe Thermal Solutions
- Automotive Engine
- Control Units
- Plasma Supply Console

Properties *symbol*	**unit**	**86/200**	**86/210lb**
Color		pink/yellow	pink/yellow
Thermal Properties			
Thermal Resistance R_{th}	K/W	1.50	1.50
Thermal Impedance R_{ti}	°Cmm²/W Kin²/W	500 0.77	500 0.77
Thermal Conductivity λ	W/mK	1.0	1.0
Electrical Properties			
Breakdown Voltage $U_{d;ac}$	kV	8.0	8.0
Dielectric Breakdown $E_{d;ac}$	kV/mm	16	16
Volume Resistivity	Ωcm	1.0×10^{11}	1.0×10^{11}
Dielectric Loss Factor $\tan \delta$	1	1.5×10^{-3}	1.5×10^{-3}
Dielectric Constant ε_r	1	3.9	3.9
Mechanical Properties			
Thickness (±10%)	mm	0.5*	0.5*
Hardness	Shore 00	10 - 20	15 - 25
Youngs Modulus **	N/cm²	22	77
Physical Properties			
Density	g/cm³	1.61	1.62
Application Temperature	°C	-60 to +200	-60 to +200
Total Mass Loss (TML)	Ma.-%	< 0.40	< 0.24
Flame class	UL	94V-0	94V-1
Possible Thickness	mm	0.5 – 5.0	0.5 – 5.0

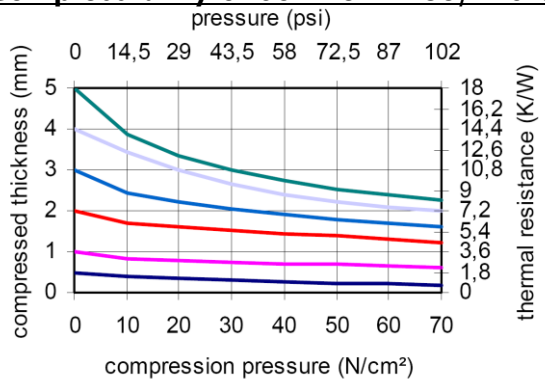
** **Youngs Modulus**: sample size 30mmx30mmx2.5mm; variable contact pressure; compression 50% of the measured thickness

Available with Optional Adhesive!

Compressibility of Softtherm® 86/200:



Compressibility of Softtherm® 86/210lb:



MH&W International Corp.
575 Corporate Drive
Mahwah, NJ 07430-2330
Tel: (201) 891-8800
Fax: (201) 891-0625
THERMAL PRODUCTS DIVISION
Email: thermal@mhw-intl.com
Internet: http://www.mhw-thermal.com