DATASHEET

KERAFOL®

Softtherm®: 86/525 & 86/600

Group of highly thermally conductive Softtherm films. These films are characterized by low thermal transitions with good dielectric behavior and a good compressibility.

APPLICATIONS

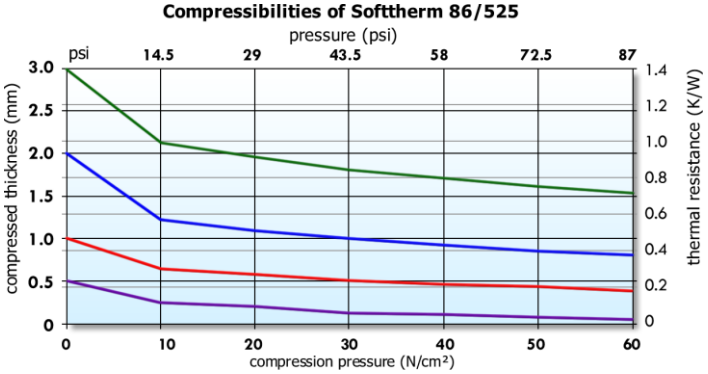
- RD-RAM Memory Module
- Heat Pipe Thermal Solutions
- Automotive Engine
- Control Units
- Plasma Supply Console

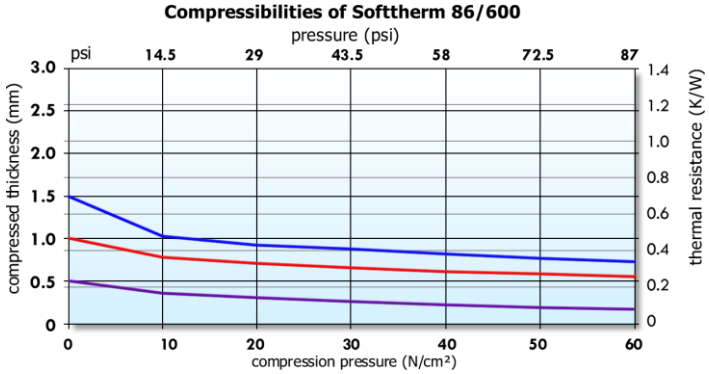
Properties	*symbol*	unit	86/525	86/600
Color			violet	gray
Thermal Properties				
Thermal Resistance	R_{th}	K/W	0.22	0.20
Thermal Impedance	R_{ti}	°Cmm²/W Kin²/W	89 0.14	80 0.12
Thermal Conductivity	λ	W/mK	5.5	6.0
Electrical Properties				
Breakdown Voltage	$U_{d;ac}$	kV	1.25	1.5
Dielectric Breakdown	$E_{d;ac}$	kV/mm	2.5	3
Volume Resistivity		Ωm	16 x 10^{12}	1.7 x 10^{10}
Dielectric Loss Factor	tan δ	1	1.0 x 10^{-3}	2.0 x 10^{-3}
Dielectric Constant	ε_r	1	2.7	2.5
Mechanical Properties				
Measured Thickness (±10%)		mm	0.5*	0.5*
Hardness		Shore A	50 - 65	60 – 75
Youngs Modulus **		N/cm²	98.5	77
Physical Properties				
Density		g/cm³	1.18	1.28
Application Temperature		°C	-40 to +180	-60 to +180
Total Mass Loss (TML)		Ma.-%	< 0.35	< 0.40
Flame class		UL	94V-0	94V-0

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

Available Thicknesses
86/525: 0.5 – 3.0 mm
86/600: 0.5 – 1.5 mm

Available with Optional Adhesive!





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