

Softtherm®: 86/300 & 86/500

Highest Thermal Conductivity



This group of Softtherm® films has the best thermal behavior. The group is characterized by its low thermal resistance and best heat dissipation, as well as good dielectric strength. The good compressibility and low Shore Hardness ensure reliable and simple processability.

APPLICATIONS

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

DISCLAIMER: Purchaser shall be solely responsible for determining the adequacy of the product for any and all uses which the purchaser shall apply the product, and the application of the product by the purchaser shall not be subject to any implied warranty of fitness for that purpose.

Properties	symbol	unit	86/300	86/500
Color			blue	brown
Thermal Properties				
Thermal Resistance	R_{th}	K/W	0.41	0.25
Thermal Impedance	R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$ Kin^2/W	166 0.25	100 0.15
Thermal Conductivity	λ	W/mK	3.0	5.0
Electrical Properties				
Breakdown Voltage	$U_{d;ac}$	kV	8.0	1.0
Volume Resistivity		Ωcm	1.0×10^{11}	1.0×10^{11}
Dielectric Loss Factor	$\tan \delta$	1	5.0×10^{-3}	1.5×10^{-3}
Dielectric Constant	ϵ_r	1	3.3	3.9
Mechanical Properties				
Thickness ($\pm 10\%$)		mm	0.5*	0.5*
Hardness		Shore A	65	75
Youngs Modulus **		N/cm ²	220	634
Physical Properties				
Application Temperature		$^{\circ}\text{C}$	-60 to +200	-40 to +200
Total Mass Loss (TML)		Ma.-%	< 0.35	< 0.24
Flame class		UL	94V-0	-

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

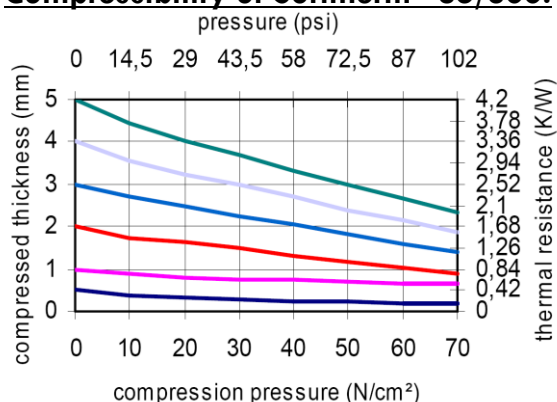
Available with Optional Adhesive!

Available Thicknesses

86/300: 0.5 – 5.0 mm

86/500: 0.5 – 2.0 mm

Compressibility of Softtherm® 86/300:



Compressibility of Softtherm® 86/500:

