

## Softtherm®: 86/120 & 86/200



These highly elastic films are characterized by their excellent compressibility with moderate thermal and excellent dielectric behavior. While the 86/200 film is constructed in two layers, the single layer 86/120 has up to a thickness of 1.0 mm and a glass fiber reinforcement for improved handling.

The 86/120 film is characterized by a very good price-performance ratio.

### 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	86/120	86/200
Color			Green	pink/yellow
<b>Thermal Properties</b>				
Thermal Resistance	$R_{th}$	K/W	0.83	1.50
Thermal Impedance	$R_{ti}$	$^{\circ}Cmm^2/W$	302	480
		$Kin^2/W$	0.47	0.75
Thermal Conductivity	$\lambda$	W/mK	1.5	1.0
<b>Electrical Properties</b>				
Breakdown Voltage	$U_{d;ac}$	kV	4.0	8.0
Dielectric Breakdown	$E_{d;ac}$	kV/mm	8.0	16
Volume Resistivity		$\Omega cm$	$1.0 \times 10^{11}$	$1.0 \times 10^{11}$
Dielectric Loss Factor	$\tan \delta$	1	$8.0 \times 10^{-3}$	$1.5 \times 10^{-3}$
Dielectric Constant	$\epsilon_r$	1	3.5	3.9
<b>Mechanical Properties</b>				
Thickness ( $\pm 10\%$ )		mm	0.5*	0.5*
Hardness		Shore 00	30 - 45	10 - 20
Youngs Modulus **		N/cm <sup>2</sup>	111	22
<b>Physical Properties</b>				
Density		g/cm <sup>3</sup>	2.3	1.61
Application Temperature		$^{\circ}C$	-40 to +150	-60 to +200
Total Mass Loss (TML)		Ma.-%	< 1.20	< 0.40
Flame class		UL	94V-0	94V-0
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!**

