

## Softtherm®: 86/300 & 86/320



This group of Softtherm® films has a very good thermal behavior. The films are characterized by low thermal resistance and best heat dissipation, as well as good dielectric strength. 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.

### Available Thicknesses

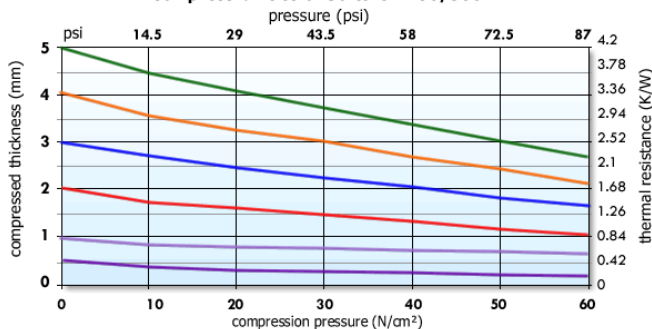
**86/300:** 0.5 – 5.0 mm

**86/320:** 1.0 – 5.0 mm

Properties	symbol	unit	86/300	86/320
Color			blue	mandarin
<b>Thermal Properties</b>				
Thermal Resistance	$R_{th}$	K/W	0.41	0.5
Thermal Impedance	$R_{ti}$	$^{\circ}\text{Cmm}^2/\text{W}$	166	147
		$\text{Kin}^2/\text{W}$	0.25	0.23
Thermal Conductivity	$\lambda$	W/mK	3.0	2.5
<b>Electrical Properties</b>				
Breakdown Voltage	$U_{d;ac}$	kV	8.0	1.0
Dielectric Breakdown	$E_{d;ac}$	kV/mm	16	10
Volume Resistivity		$\Omega\text{cm}$	$1.0 \times 10^{11}$	$0.68 \times 10^{12}$
Dielectric Loss Factor	$\tan \delta$	1	$5.0 \times 10^{-3}$	$2.9 \times 10^{-2}$
Dielectric Constant	$\epsilon_r$	1	3.3	3.4
<b>Mechanical Properties</b>				
Measured Thickness ( $\pm 10\%$ )		mm	0.5*	0.5*
Hardness		Shore A	60 - 70	30 - 35
Youngs Modulus **		N/cm <sup>2</sup>	24	32
<b>Physical Properties</b>				
Density		g/cm <sup>3</sup>	1.71	1.69
Application Temperature		$^{\circ}\text{C}$	-60 to +200	-40 to +180
Total Mass Loss (TML)		Ma.-%	< 0.35	< 0.46
Flame class		UL	94V-0	-

**\*\* Youngs Modulus:** sample size 30mmx30mmx2.5mm; variable contact pressure; compression 50% of the measured thickness  
**Available with Optional Adhesive!**

Compressibilities of Softtherm 86/300



Compressibilities of Softtherm 86/320

