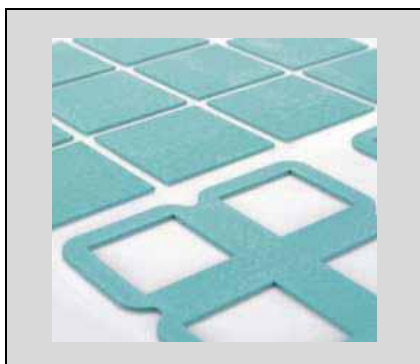


## Softtherm<sup>®</sup>: 86/300 & 86/325



Graduated compressibility and softness with good thermal behavior characterize Softtherm 86/300 and 86/325. These single layer films can be enhanced with a fiberglass reinforcement up to a thickness of 1.0mm.

### 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

**86/325:** 0.5 – 3.0 mm

Properties	symbol	unit	86/300	86/325
Color			blue	mint
<b>Thermal Properties</b>				
Thermal Resistance	$R_{th}$	K/W	0.41	0.41
Thermal Impedance	$R_{ti}$	$^{\circ}\text{Cmm}^2/\text{W}$	164	164
		$\text{Kin}^2/\text{W}$	0.25	0.25
Thermal Conductivity	$\lambda$	W/mK	3.0	3.0
<b>Electrical Properties</b>				
Breakdown Voltage	$U_{d;ac}$	kV	7.0	6.0
Dielectric Breakdown	$E_{d;ac}$	kV/mm	14	12
Volume Resistivity		$\Omega\text{cm}$	$1.0 \times 10^{11}$	$85.4 \times 10^9$
Dielectric Loss Factor	$\tan \delta$	1	$5.0 \times 10^{-3}$	0.145
Dielectric Constant	$\epsilon_r$	1	3.3	3.77
<b>Mechanical Properties</b>				
Measured Thickness ( $\pm 10\%$ )		mm	0.5*	0.5*
Hardness		Shore A	60 - 75	35 - 50
Youngs Modulus **		N/cm <sup>2</sup>	24	64
<b>Physical Properties</b>				
Density		g/cm <sup>3</sup>	1.71	1.95
Application Temperature		$^{\circ}\text{C}$	-60 to +200	-40 to +180
Total Mass Loss (TML)		Ma.-%	< 0.35	< 0.35
Flame class		UL	94V-0	94V-0

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

**Available with Optional Adhesive!**

