

## Softtherm<sup>®</sup>: 86/225 & 86/320



Single layer Softtherm films with graded thermal behavior. These films are partial fiberglass reinforced and are a low cost alternative to the two layer Softtherm films.

### 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

**86/225:** 0.5 – 5.0 mm

**86/320:** 1.0 – 5.0 mm

Properties	symbol	unit	86/225	86/320
Color			orange	mandarin
<b>Thermal Properties</b>				
Thermal Resistance	$R_{th}$	K/W	0.60	0.50
Thermal Impedance	$R_{ti}$	$^{\circ}\text{Cmm}^2/\text{W}$	240	147
		$\text{Kin}^2/\text{W}$	0.37	0.23
Thermal Conductivity	$\lambda$	W/mK	2.0	2.5
<b>Electrical Properties</b>				
Breakdown Voltage	$U_{d;ac}$	kV	6.0	5.0
Dielectric Breakdown	$E_{d;ac}$	kV/mm	12	10
Volume Resistivity		$\Omega\text{cm}$	$2.2 \times 10^{11}$	$0.68 \times 10^{12}$
Dielectric Loss Factor	$\tan \delta$	1	$1.0 \times 10^{-3}$	$2.9 \times 10^{-2}$
Dielectric Constant	$\epsilon_r$	1	3.6	3.4
<b>Mechanical Properties</b>				
Measured Thickness ( $\pm 10\%$ )		mm	0.5*	0.5*
Hardness		Shore A	30 - 45	25 - 38
Youngs Modulus **		N/cm <sup>2</sup>	58	32
<b>Physical Properties</b>				
Density		g/cm <sup>3</sup>	1.65	1.69
Application Temperature		$^{\circ}\text{C}$	-40 to +180	-40 to +180
Total Mass Loss (TML)		Ma.-%	< 0.44	< 0.46
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!**

