

Softtherm®: 86/225



This new single-layer fiberglass-reinforced Softtherm® film is produced in thicknesses from 0.5mm to 5.0mm and has good self-adhesive behavior on both sides. Good thermal values and very good dielectric properties characterize this film.

The film's ideal Shore hardness guarantees very good compressibility and good relaxation, along with vibration damping characteristics.

APPLICATIONS

- Heat Pipe Thermal Solutions
- Automotive Engine
- Control Systems
- Control Units

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	86/225
Color			Orange
Thermal Properties			
Thermal Resistance	R_{th}	K/W	< 0.60
Thermal Impedance	R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$ Kin^2/W	> 218 < 0.32
Thermal Conductivity	λ	W/mK	> 2.0
Electrical Properties			
Breakdown Voltage	$U_{d,ac}$	kV	> 6.0
Dielectric Breakdown	$E_{d,ac}$	kV/mm	> 12.0
Volume Resistivity		Ωcm	2.21×10^{11}
Dielectric Loss Factor	$\tan \delta$	1	1.0×10^{-3}
Dielectric Constant	ϵ_r	1	3.6
Mechanical Properties			
Measured Thickness ($\pm 1\%$)		mm	0.5*
Hardness		Shore 00	30 – 45
Youngs Modulus		N/cm ³	58
Physical Properties			
Density		g/cm ³	1.65
Application Temperature		$^{\circ}\text{C}$	-40 to +180
TML		Ma.-%	< 0.44
Flame class		UL	94V-0
Available Thickness		mm	0.5 – 5.0

Compressibilities of Softtherm 86/225

