DATASHEET

KERAFOL®

Softtherm®: 86/235 & 86/255

Customer oriented development determines the properties of Softtherm 86/235 and 86/255. The two layer 86/255 is distinguished by good thermal, mechanical and dielectric properties. 86/235 is a single layer, particularly optimized in its "Silocan" behavior.
(low volatile silicone <150ppm)

APPLICATIONS

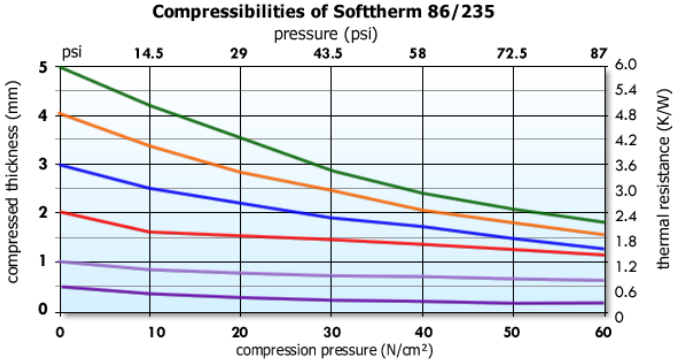
- RD-RAM Memory Module
- Heat Pipe Thermal Solutions
- Automotive Engine
- Control Units
- Plasma Supply Console

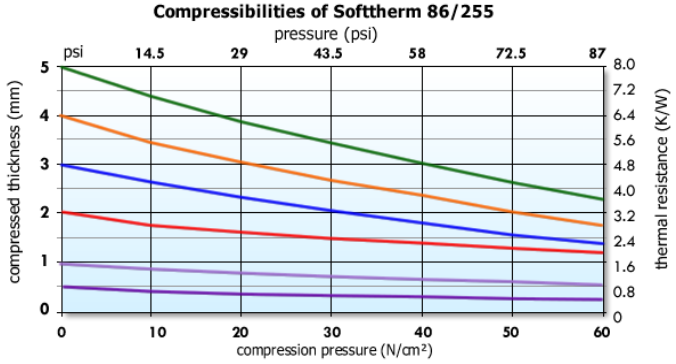
Available with Optional Adhesive!

* **Available Thicknesses:** 0.5 – 5.0 mm

Properties *symbol*	**unit**	**86/235**	**86/255**
Color		yellow-orange	white/red
Thermal Properties			
Thermal Resistance R_{th}	K/W	0.60	0.60
Thermal Impedance R_{ti}	°Cmm²/W Kin²/W	240 0.37	240 0.37
Thermal Conductivity λ	W/mK	2.0	2.0
Electrical Properties			
Breakdown Voltage $U_{d;ac}$	kV	6.0	8.0
Dielectric Breakdown $E_{d;ac}$	kV/mm	12	16
Volume Resistivity	Ωm	176.1×10^{9}	1.0×10^{11}
Dielectric Loss Factor tan δ	1	0.0202	2.5×10^{-3}
Dielectric Constant ε_r	1	3.7	3.8
Mechanical Properties			
Measured Thickness (±10%)	mm	0.5	0.5
Hardness	Shore A	30 - 45	25 - 40
Youngs Modulus **	N/cm²	32	30
Physical Properties			
Density	g/cm³	1.65	1.80
Application Temperature	°C	-40 to +180	-60 to +200
Total Mass Loss (TML)	Ma.-%	< 0.15	< 0.44
Flame class	UL	94V-0	94V-1

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





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