DATASHEET

KERAFOL®

Softtherm®: Silicone Free **U 200** and **U 281**

Flexible ceramic thermal-conducting and insulating films. Softtherm U 200 and U 281 are particularly suited for silicone-sensitive applications and as an alternative to silicone-based Softtherm films.

These silicone-free Softtherm films have high electrical insulation and very good thermal conductivity.

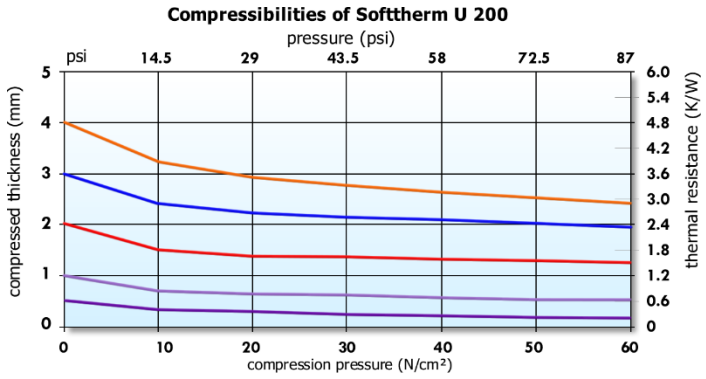
Optional available with adhesive coating!

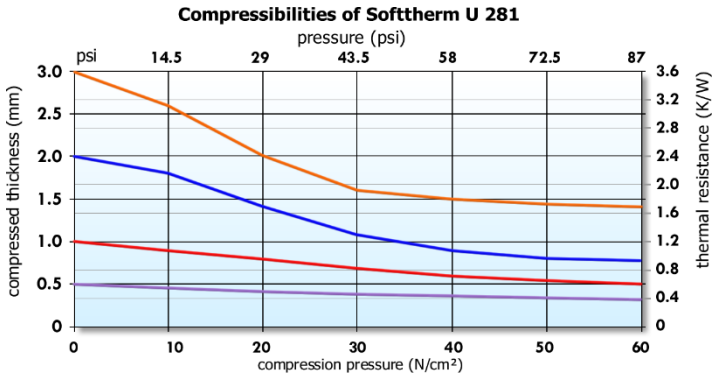
APPLICATIONS

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

Properties *symbol*	**unit**	**U 200**	**U 281**
Color		brown	gray
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	7.0	7.0
Dielectric Breakdown $E_{d;ac}$	kV/mm	14	14
Volume Resistivity	Ωm	5.1×10^{9}	5.32×10^{9}
Dielectric Loss Factor tanδ	1	3.6×10^{-2}	7.8×10^{-2}
Dielectric Constant ε_r	1	8.1	5.57
Mechanical Properties			
Measured Thickness (±10%)	mm	0.5*	0.5*
Hardness	Shore 00	55 – 70	55 – 65
Youngs Modulus**	N/cm³	197	244
Physical Properties			
Density	g/cm³	2.1	2.6
Application Temperature	°C	-40 to +130	-40 to +130
TML	Ma.-%	< 0.8	< 0.9
Flame class	UL	94V-0	94V-0
Available Thicknesses	mm	0.5 – 4.0	0.5 – 3.0

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





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