

Softtherm®: U 105 Silicone Free



Flexible ceramic thermal conductive and isolating film. Softtherm U 105 is especially designed for silicone sensitive applications and is an alternative material to the silicone based Softtherm films. The U 105 has an excellent electrical isolation and a very good thermal conductivity.

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.

Properties	symbol	unit	U 105
Color			brown
Thermal Properties			
Thermal Resistance	R_{th}	K/W	0.96
Thermal Impedance	R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$ Kin^2/W	351 0.53
Thermal Conductivity	λ	W/mK	1.3
Electrical Properties			
Breakdown Voltage	$U_{d;ac}$	kV	8
Dielectric Breakdown	$E_{d;ac}$	kV/mm	16
Volume Resistivity		Ωcm	1.7×10^{10}
Dielectric Loss Factor	$\tan \delta$	1	1.3×10^{-2}
Dielectric Constant	ϵ_r	1	4.6
Mechanical Properties			
Measured Thickness ($\pm 10\%$)		mm	0.5*
Hardness		Shore 00	60 – 70
Youngs Modulus		N/cm ³	98
Physical Properties			
Density		g/cm ³	2.07
Application Temperature		$^{\circ}\text{C}$	-40 to +110
TML		Ma.-%	< 0.55
Flame class		UL	-

* Available Thicknesses: 0.5 – 5.0 mm

Compressibilities of Softtherm U 105

