

Keratherm Silicone Free: U 90



In case of concerns about using silicones, we offer you a ceramic filled polyurethane film as an alternative material.

APPLICATIONS

- Medical Applications
- Laser Equipment
- Space Units
- Lighting Systems
- Aero Units
- CD-ROM Drives

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 90
Color			light blue
Thermal Properties			
Thermal Resistance	R_{th}	K/W	0.09
Thermal Impedance	R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$ Kin^2/W	32.9 0.05
Thermal Conductivity	λ	W/mK	6.0
Electrical Properties			
Breakdown Voltage	$U_{d;ac}$	kV	4.0
Dielectric Breakdown	$E_{d;ac}$	kV/mm	25
Volume Resistivity		Ωcm	4.9×10^{11}
Dielectric Loss Factor	$\tan \delta$	1	13.7×10^{-3}
Dielectric Constant	ϵ_r	1	3.10
Mechanical Properties			
Overall Thickness ($\pm 10\%$)		mm	0.200
Hardness		Shore A	65 - 75
Tensile Strength		N/mm ²	2.5
Elongation		%	150
Physical Properties			
Application Temperature		$^{\circ}\text{C}$	-40 to +125
Density		g/cm ³	1.46
Possible Thickness		mm	0.1 - 0.3

Besides good thermal and outstanding electrical properties, these films are characterized by very good perforation strength. These good physical properties are matched with an excellent price-performance ratio.

Optional available with adhesive coating!