

U 90

Keratherm silicone free U-Film



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

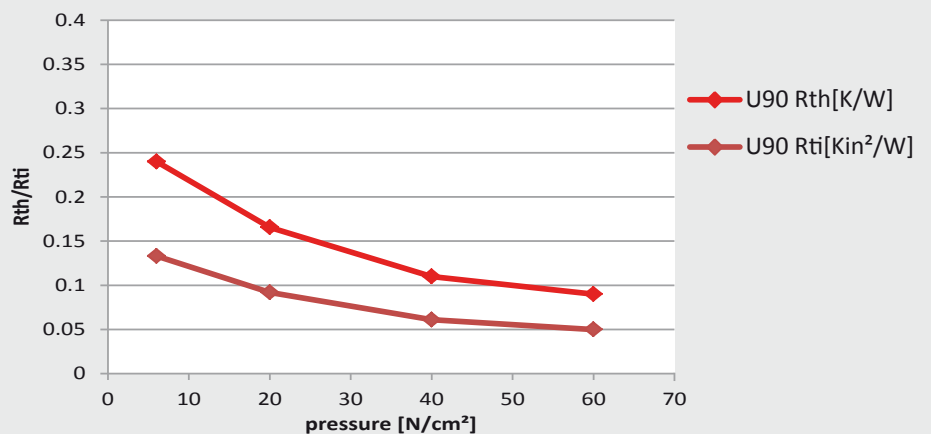
✓ Optionally available with adhesive coating!

Applications

- medical applications
- laser equipment
- lighting systems
- CD-rom drives
- aero units
- space units

Properties	Unit	U 90
Colour		light blue
Thermal Properties		
Thermal resistance R_{th}	K/W	0.082
Thermal impedance R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$	32.9
	Kin^2/W	0.05
Thermal conductivity λ	W/mK	6
Electrical Properties		
Breakdown voltage $U_{d, ac}$	kV	4
Dielectric breakdown $E_{d, ac}$	kV/mm	25
Volume resistivity	Ωm	2.0×10^{11}
Dielectric loss factor $\tan \delta$	1	13.7×10^{-3}
Dielectric constant ϵ_r	1	3.1
Mechanical Properties		
Measured thickness (+/-10%)	mm	0.200
Hardness	Shore A	70 - 80
Tensile strength	N/mm ²	2.0
Elongation	%	150
Physical Properties		
Application temperature	$^{\circ}\text{C}$	-40 to +125
Density	g/cm ³	1.46
Flame rating	UL-94	V-0
Possible thickness	mm	0.100 - 0.300

Compression U 90



Important notes

The data presented in this leaflet are in accordance with the present state of our knowledge. All statements, technical information and recommendations herein are based on tests we believe to be reliable. The customer is thereby not absolved from carefully checking all supplies immediately on receipt. The recommendations made in this catalogue should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection there with. We reserve the right to alter product constants within the scope of technical process or new developments. The recommendations do not absolve the customer from the obligation of investigating the possibility of infringement of third parties right and, if necessary, clarifying the position. Sellers' and manufacturer' only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable either in tort or contract for any loss or damage, direct or incidental, or consequential, including loss of profits or revenue arising out of the use or the inability to use a product. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer.

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