

## Keratherm Silicone Free: U 85



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.

### 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 85
Color			light blue
<b>Thermal Properties</b>			
Thermal Resistance	$R_{th}$	K/W	0.165
Thermal Impedance	$R_{ti}$	$^{\circ}\text{Cmm}^2/\text{W}$ $\text{Kin}^2/\text{W}$	60.2 0.091
Thermal Conductivity	$\lambda$	W/mK	3.0
<b>Electrical Properties</b>			
Breakdown Voltage	$U_{d;ac}$	kV	6.0
Dielectric Breakdown	$E_{d;ac}$	kV/mm	30
Volume Resistivity		$\Omega\text{cm}$	$4.08 \times 10^9$
Dielectric Loss Factor	$\tan \delta$	1	$26 \times 10^{-3}$
Dielectric Constant	$\epsilon_r$	1	1.96
<b>Mechanical Properties</b>			
Overall Thickness ( $\pm 10\%$ )		mm	0.200
Hardness		Shore A	70 - 85
Tensile Strength		N/mm <sup>2</sup>	-
Elongation		%	-
<b>Physical Properties</b>			
Application Temperature		$^{\circ}\text{C}$	-40 to +150
Density		g/cm <sup>3</sup>	1.44
Flame Rating (E 140693)		UL	94V-0
Possible Thickness		mm	0.125 - 0.300

**Optional available with adhesive coating!**

These good physical properties are matched with an excellent price-performance ratio.

