



## 86/37

Keratherm green



This silicone elastomer film is characterized by its excellent electrical characteristics. It exhibits good thermal behaviour. Optional fibre glass reinforcement leads to very good mechanical properties. These film-types possess excellent mechanical stability along with good perforation strength. Because of its structure, Keratherm green has extremely good self-adhesive properties. Additional adhesive coatings available.

### Applications

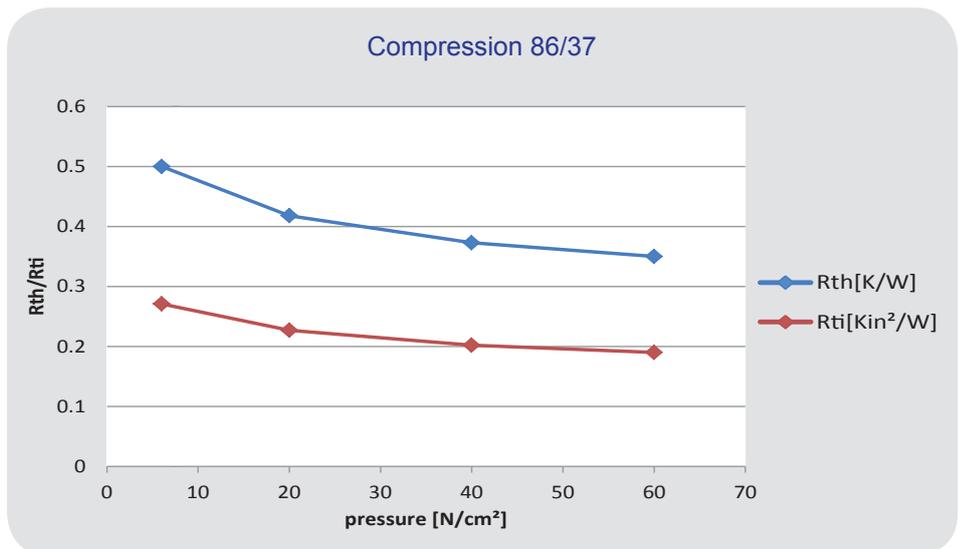
- automobiles
- telecommunication units
- high voltage units
- DC-DC converters

### Options

Type	Film structure	Overall thickness	Tensile strength	Breakdown voltage Ud	Thermal resistance
		mm	MPa	kV	K/W
86/17	with fibreglass	0,225	7,5	6,0	0,5
86/27	with fibreglass and adh. Coating	0,25	7,5	6,0	0,55
86/47	with adh. Coating	0,25	2,0	8,0	0,39

Properties	Unit	86/37
Colour		green
<b>Thermal Properties</b>		
Thermal resistance $R_{th}$	K/W	0.32
Thermal impedance $R_{ti}$	$^{\circ}\text{Cmm}^2/\text{W}$	129
	$\text{Kin}^2/\text{W}$	0.20
Thermal conductivity $\lambda$	W/mK	1.8
<b>Electrical Properties</b>		
Breakdown voltage $U_{d,ac}$	kV	8
Dielectric breakdown $E_{d,ac}$	kV/mm	26
Volume resistivity	$\Omega\text{m}$	$2.5 \times 10^{11}$
Dielectric loss factor $\tan \delta$	1	$6.0 \times 10^{-3}$
Dielectric constant $\epsilon_r$	1	2.9
<b>Mechanical Properties</b>		
Measured thickness (+/-10%)	mm	0.225
Hardness	Shore A	65 - 75
Tensile strength	N/mm <sup>2</sup>	2
Elongation	%	75
<b>Physical Properties</b>		
Application temperature	$^{\circ}\text{C}$	-60 to +250
Density	g/cm <sup>3</sup>	2.29
Flame rating	UL-94	V-0
Possible thickness *	mm	0.125 / 0.225 / 0.300

\*details see page 60



Data for engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

### **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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