

## Keratherm<sup>®</sup> - green Standard films

### Applications:

- Automotives
- Telecommunication units
- High voltage units
- DC-DC converters

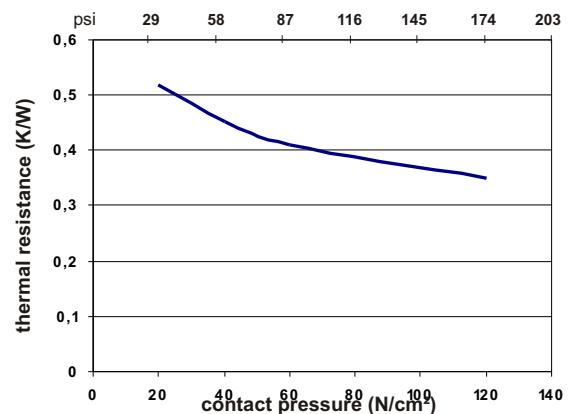


Properties	Unit	86/37 basic film
Colour		green
<b>Thermal properties</b>		
Thermal resistance $R_{th}$	K/W	0.35
Thermal impedance $R_{ti}$	$^{\circ}Cmm^2/W$	125
	$Kin^2/W$	0.19
Thermal conductivity	W/mK	1.8
<b>Electrical Properties</b>		
Breakdown voltage $U_{d; ac}$	kV	8.0
Dielectric breakdown $E_{d; ac}$	KV/mm	26
Volume resistivity	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>		
Thickness (+/-10%)	mm	0.225
Hardness	Shore A	69
Tensile strength	N/mm <sup>2</sup>	3.0
Elongation	%	75
<b>Physical properties</b>		
Application temperature	$^{\circ}C$	-60 to +250
Density	g/cm <sup>3</sup>	2.4
Flameclass	UL	94V-0

The following thicknesses are available:  
0,125 mm; 0,225 mm; 0,3 mm; 0,4 mm; 0,5 mm

This silicone elastomer film filled with aluminium oxide 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<sup>®</sup> green has extremely good self-adhesive properties. Adhesive coatings are available.

### Compressibilities Keratherm<sup>®</sup> Green



### Options for Keratherm<sup>®</sup> -green

Type	Film structure	Overall thickness mm	Tensile strength N/mm <sup>2</sup>	Thermal resistance	
				K/W	$Kin^2/W$
86/17	86/37 with fibre glass	0.225	15	0.59	0.23
86/27	86/37 with fibre glass and adhesive coating	0.250	15	0.61	0.26
86/47	86/37 with adhesive coating	0.250	3.0	0.56	0.20