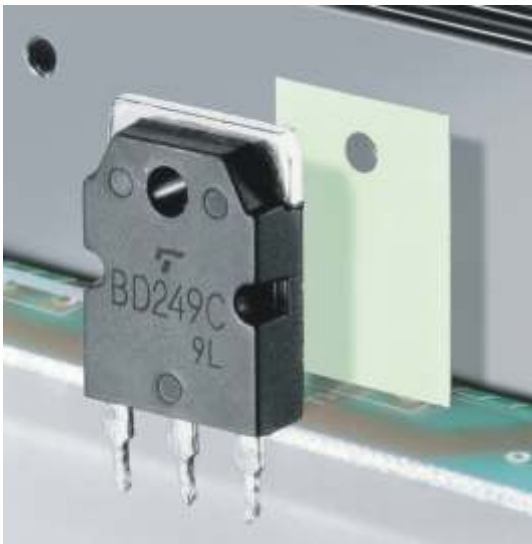


Keratherm[®] - green Standard Films

Applications:

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

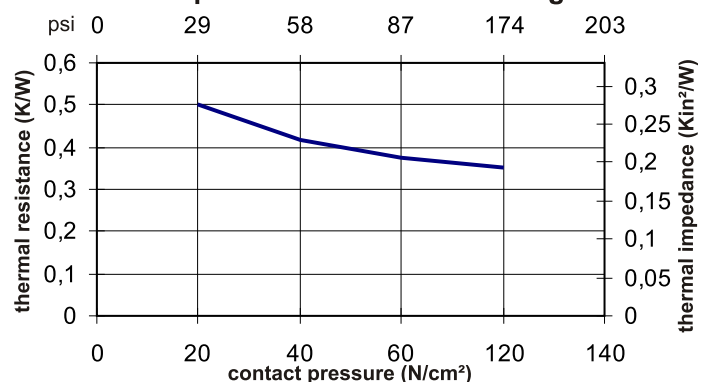


Properties	Unit	86/37 basic film
Colour		green
Thermal properties		
Thermal resistance R_{th}	K/W	0.35
Thermal impedance R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$ Kin^2/W	125 0.19
Thermal conductivity λ	W/mK	1.8
Electrical properties		
Breakdown voltage $U_{d; ac}$	kV	8.0
Dielectric breakdown $E_{d; ac}$	kV/mm	26
Volume resistivity	Ωm	2.5×10^{11}
Dielectric loss factor $\tan \delta$	1	6.0×10^{-3}
Dielectric constant ϵ_r	1	2.9
Mechanical properties		
Measured thickness (+/-10%)	mm	0.225
Hardness	Shore A	65 - 75
Tensile strength	N/mm ²	3.0
Elongation	%	75
Physical properties		
Application temperature	$^{\circ}\text{C}$	-60 to +250
Density	g/cm ³	2.29
Flame rating	UL	94V-0
Possible thickness*	mm	0.125 - 0.500

*details see page 48

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. Adhesive coatings are available.

Compressibilities Keratherm[®] - green



Options for Keratherm[®] -green

Type	Film structure	Overall thickness mm	Tensile strength N/mm ²	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