

Keratherm® - white Standard Films

Applications:

- Power supplies
- Audio- and video components
- White Goods
- Power Converters (AC-DC, DC-DC)
- Engine controllers

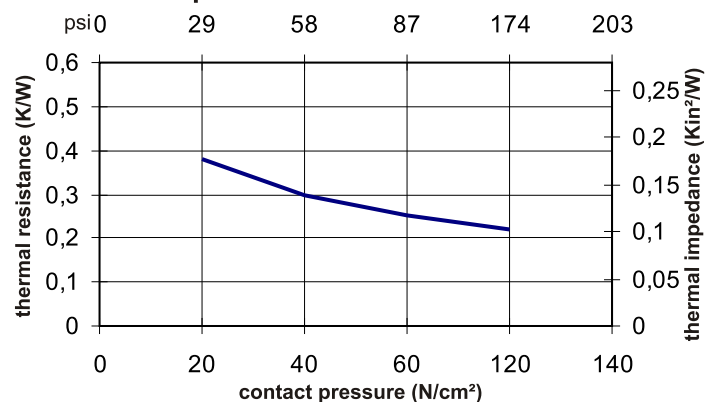


Properties	Unit	86/30 basic film
Colour		white
Thermal properties		
Thermal resistance R_{th}	K/W	0.22
Thermal impedance R_{ti}	$^{\circ}Cmm^2/W$ Kin^2/W	90 0.13
Thermal conductivity λ	W/mK	2.5
Electrical properties		
Breakdown voltage $U_{d; ac}$	kV	1.5
Dielectric breakdown $E_{d; ac}$	kV/mm	7.0
Volume resistivity	Ωm	2.5×10^{11}
Dielectric loss factor $\tan \delta$	1	2.2×10^{-2}
Dielectric constant ϵ_r	1	3.0
Mechanical properties		
Measured thickness (+/-10%)	mm	0.225
Hardness	Shore A	70 - 80
Tensile strength	N/mm ²	2.0
Elongation	%	31
Physical properties		
Application temperature	$^{\circ}C$	-60 to +250
Density	g/cm ³	2.33
Flame rating	UL	94V-0
Possible thickness*	mm	0.125 - 0.500

*details see page 48

The highly thermal conductive white group, with its well-balanced thermal, electrical and dielectric behaviour, is created by filling a silicone elastomer base with aluminum oxide. An increase in mechanical strength can be achieved by fibre glass reinforcement. Both unreinforced and reinforced film types can optionally be supplied with an adhesive coating. In general however, the very good self-adhesion of the film will be sufficient for most mounting required.

Compressibilities Keratherm® - white



Options for Keratherm® -white

Type	Film structure	Overall thickness mm	Tensile strength N/mm ²	Thermal resistance	
				K/W	Kin ² /W
86/10	86/30 with fibre glass	0.225	15	0.30	0.15
86/20	86/30 with fibre glass and adhesive coating	0.250	15	0.49	0.19
86/40	86/30 with adhesive coating	0.250	2.0	0.37	0.17

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 therewith. 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' rights and, if necessary, clarifying the position. Sellers' and manufacturer's 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. Last update: 06/2011