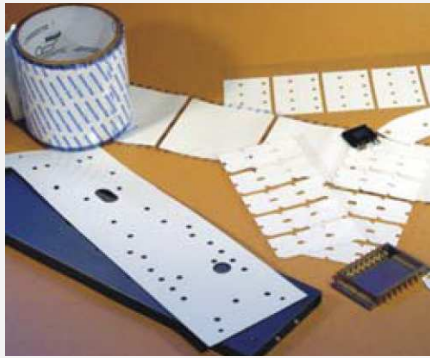


Standard Films: Keratherm White



The highly thermal conductive white group, with its well balanced thermal and electrical or dielectric behavior, is created by filling a silicone elastomer base with aluminum oxide.

APPLICATIONS

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

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	86/30 Basic film
Color			white
Thermal Properties			
Thermal Resistance	R_{th}	K/W	0.22
Thermal Impedance	R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$ 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		Ωcm	2.5×10^{11}
Dielectric Loss Factor	$\tan \delta$	1	2.2×10^{-2}
Dielectric Constant	ϵ_r	1	3.0
Mechanical Properties			
Overall Thickness ($\pm 10\%$)		mm	0.225
Hardness		Shore A	75
Tensile Strength		N/mm ²	2.0
Elongation		%	31
Physical Properties			
Application Temperature		$^{\circ}\text{C}$	-60 to +250
Density		g/cm ³	2.4
Flame class		UL	94V-0

An increase in mechanical strength can be achieved by fiberglass 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.

Options for Keratherm White (Standard Film):

Type	Film Structure	Overall Thickness	Tensile Strength	Thermal Resistance	
		mm	N/mm ²	K/W	Kin ² /W
86/10	86/30 with fiberglass	0.225	15	0.30	0.15
86/20	86/30 with fiberglass and adhesive coating	0.225	15	0.49	0.19
86/40	86/30 with adhesive coating	0.225	2.0	0.37	0.17

The following thicknesses are available: 0.125 mm, 0.225 mm, 0.3 mm, 0.4 mm, 0.5 mm