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KERAFOL
Keramische Folien GmbH

Hightech aus der Oberpfalz

Keratherm® - pink
Standard Films

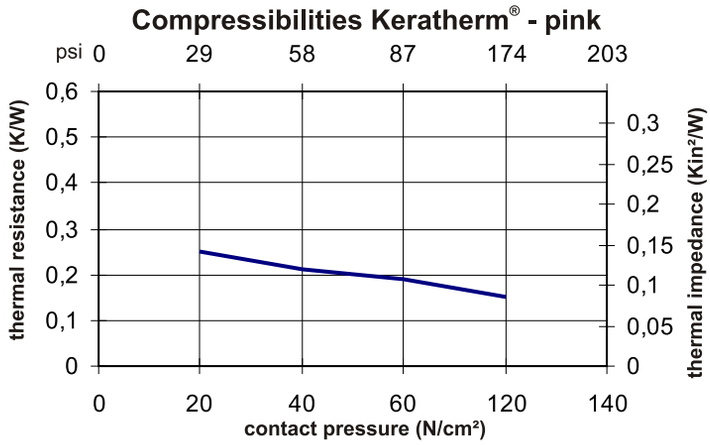
Applications:

- Automotives
- Audio and video components
- White Goods
- Power converters (AC-DC, DC-DC)
- Engine controllers
- LCD displays

Properties	Unit	86/50 basic film
Colour		pink
Thermal properties		
Thermal resistance R_{th}	K/W	0.16
Thermal impedance R_{ti}	°Cmm²/W Kin²/W	64 0.09
Thermal conductivity λ	W/mK	3.5
Electrical properties		
Breakdown voltage $U_{d;\,ac}$	kV	1.5
Dielectric breakdown $E_{d;\,ac}$	kV/mm	7.0
Volume resistivity	Ωm	1.3×10^{14}
Dielectric loss factor tan δ	1	6.7×10^{-2}
Dielectric constant ε_r	1	2.3
Mechanical properties		
Measured thickness (+/-10%)	mm	0.225
Hardness	Shore A	70 - 80
Tensile strength	N/mm²	2.0
Elongation	%	25
Physical properties		
Application temperature	°C	-60 to +250
Density	g/cm³	1.97
Flame rating	UL	94V-0
Possible thickness*	mm	0.125 – 0.500

Keratherm®- pink has outstanding thermal conductivity which is achieved by a specially filled silicone elastomer. The good electrical insulation properties are thereby retained. On request, these films can also be supplied with fibre glass reinforcement and with or without adhesive coating. The excellent thermal resistance of this film enables the optimum heat transfer to the heat sink.

Compressibilities Keratherm® - pink



Options for Keratherm® -pink

Type	Film structure	Overall thickness mm	Tensile strength N/mm²	Thermal resistance K/W	Thermal resistance Kin²/W
86/51	86/50 with adhesive coating	0.250	2.1	0.25	0.13
86/52	86/50 with fibre glass	0.225	15	0.28	0.14
86/53	86/50 with fibre glass and adhesive coating	0.250	15	0.31	0.15