

Datasheet

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
Color		pink
Thermal properties		
Thermal resistance R_{th}	K/W	0.16
Thermal impedance R_{ti}	$^{\circ}Cmm^2/W$ Kin^2/W	64 0.09
Thermal conductivity	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	cm	1.3×10^{14}
Dielectric loss factor \tan	1	6.7×10^{-2}
Dielectric constant ϵ_r	1	2.3
Mechanical properties		
Overall thickness (+/-10%)	mm	0.225
Hardness	Shore A	72
Tensile strength	N/mm ²	2.0
Elongation	%	2.5
Physical properties		
Application temperature	$^{\circ}C$	-60 to +250
Density	g/cm ³	2.4
Flameclass	UL	94V-0

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.

Options for Keratherm[®] -pink (standard film)

Type	Film structure	Overall thickness mm	Tensile strength N/mm ²	Thermal resistance	
				K/W	Kin^2/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

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