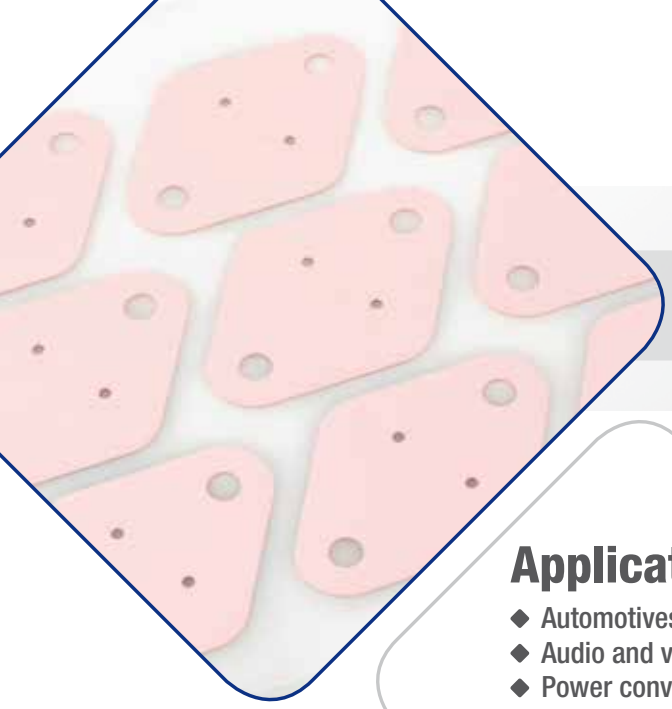
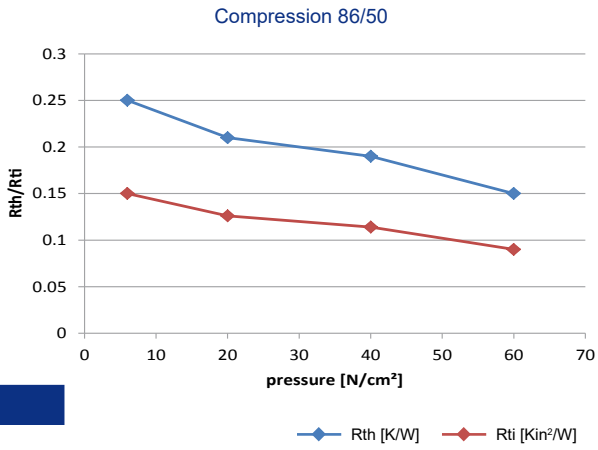


86/50
KERATHERM® pink

Applications

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



Properties	Unit	86/50
Colour		pink
Thermal Properties		
Thermal resistance R_{th}	K/W	0.16
Thermal impedance R_{ti}	°Cmm²/W	64
	Kin²/W	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		6.7×10^{-2}
Dielectric constant ε_r		2.3
Mechanical Properties		
Measured thickness (+/-10%)	mm	0.225
Hardness	Shore A	70 - 80
Tensile strength	N/mm²	1.3
Elongation	%	25
Physical Properties		
Application temperature	°C	-60 to +250
Density	g/cm³	1.97
Flame rating	UL-94	V-0
Possible thickness	mm	0.125 - 0.5

KERATHERM® pink offers 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 fibreglass reinforcement and with or without adhesive coating. The excellent thermal resistance of this film enables the optimum heat transfer to the heat sink.

For assistance contact
P: 847-255-4400
F: 847-255-0192
sales@hilltech.com
http://www.hilltech.com

Options

Type	Film structure	Overall thickness	Tensile strength	Breakdown voltage $U_{d;\,ac}$	Thermal resistance
		mm	N/mm²	kV	K/W
86/51	with adh. coating	0.250	1.3	1.5	0.26
86/52	with fibreglass	0.225	10.0	1.5	0.22
86/53	with fibreglass and adh. coating	0.250	10.0	1.5	0.27

Data for engineer guidance only.
Observed performance varies in application.
Engineers are reminded to test the material in application.

NOTE:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. KERAFOL® is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. All specifications are subject to change without notice. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded. In case KERAFOL® would be nevertheless held liable, on whatever legal ground, KERAFOL®'s liability will in no event exceed the amount of the concerned delivery. All KERAFOL® products are sold pursuant to the KERAFOL®'s Terms and Conditions of sale and delivery in effect from time to time, a copy of which will be furnished upon request.

10-2019