

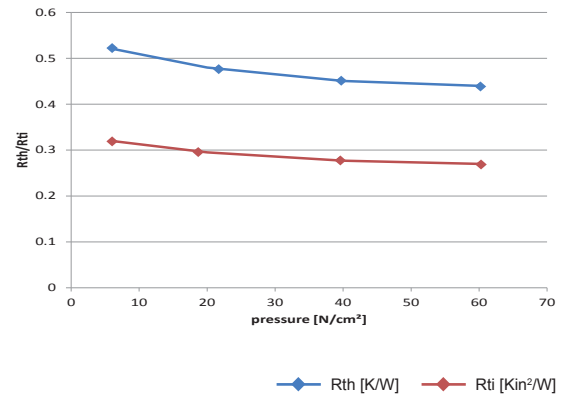
70/50

KERATHERM® brown

Applications

- ◆ automotives
- ◆ engine controllers
- ◆ LCD displays
- ◆ power converters (AC-DC, DC-DC)
- ◆ audio and video components
- ◆ white goods

Compression 70/50



Properties	Unit	70/50
Colour		brown
Thermal Properties		
Thermal resistance R_{th}	K/W	0.44
Thermal impedance R_{ti}	°Cmm²/W	178
	Kin²/W	0.27
Thermal conductivity λ	W/mK	1.4
Electrical Properties		
Breakdown voltage $U_{d, ac}$	kV	5.0
Dielectric breakdown $E_{d, ac}$	kV/mm	20.0
Volume resistivity	Ωm	1.0×10^{13}
Dielectric loss factor $\tan \delta$		7.3×10^{-3}
Dielectric constant ϵ_r		3.6
Mechanical Properties		
Measured thickness (+/-10%)	mm	0.250
Hardness	Shore A	80 - 90
Tensile strength	N/mm²	10.0
Elongation	%	5
Physical Properties		
Application temperature	°C	-40 to +200
Density	g/cm³	2.18
Flame rating	UL-94	V-1
Possible thickness		details see page 57

KERATHERM® brown, with its very good thermal properties, is an excellent choice for cost-effective solutions. These fibre glass reinforced films, along with their very smooth surface, have very good thermal resistance with a high insulation capacity at low mounting pressures.

Options

Type	Film structure	Overall thickness	Tensile strength	Breakdown voltage $U_{d, ac}$	Thermal resistance
		mm	N/mm²	kV	K/W
70/60	with adh. Coating	0.275	10.0	5.0	0.53

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.

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