



70/50

Keratherm brown



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.

Applications

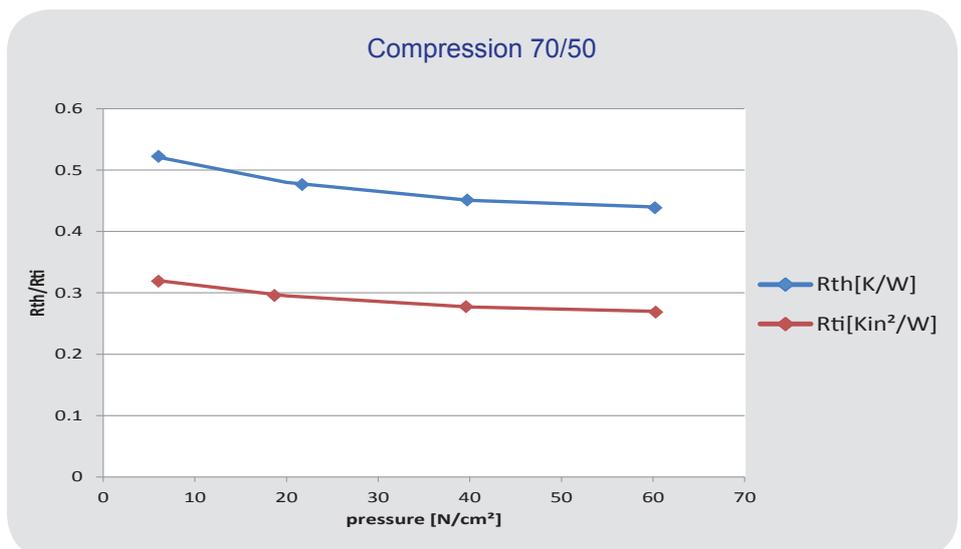
- automotives
- engine controllers
- LCD displays
- power converters (AC-DC, DC-DC)
- audio and video components
- white goods

Options

Type	Film structure	Overall thickness	Tensile strength	Breakdown voltage Ud	Thermal resistance
		mm	MPa	kV	K/W
70/60	with adh. Coating	0,275	10,0	5,0	0,53

Properties	Unit	70/50
Colour		brown
Thermal Properties		
Thermal resistance R_{th}	K/W	0.44
Thermal impedance R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$	178
	Kin^2/W	0.27
Thermal conductivity λ	W/mK	1.4
Electrical Properties		
Breakdown voltage $U_{d, ac}$	kV	5
Dielectric breakdown $E_{d, ac}$	kV/mm	20
Volume resistivity	Ωm	1.0×10^{13}
Dielectric loss factor $\tan \delta$	1	7.3×10^{-3}
Dielectric constant ϵ_r	1	3.6
Mechanical Properties		
Measured thickness (+/-10%)	mm	0.250
Hardness	Shore A	80 - 90
Tensile strength	N/mm ²	10
Elongation	%	5
Physical Properties		
Application temperature	$^{\circ}\text{C}$	-40 to +200
Density	g/cm ³	2.18
Flame rating	UL-94	V-1
Possible thickness *	mm	0.250

*details see page 60



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

Important notes

The data presented in this leaflet are in accordance with the present state of our knowledge. All statements, technical information and recommendations herein are based on tests we believe to be reliable. The customer is thereby not absolved from carefully checking all supplies immediately on receipt. The recommendations made in this catalogue should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection there with. We reserve the right to alter product constants within the scope of technical process or new developments. The recommendations do not absolve the customer from the obligation of investigating the possibility of infringement of third parties right and, if necessary, clarifying the position. Sellers' and manufacturer' only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable either in tort or contract for any loss or damage, direct or incidental, or consequential, including loss of profits or revenue arising out of the use or the inability to use a product. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer.

01-05-2014