

86/450

high thermal conductivity



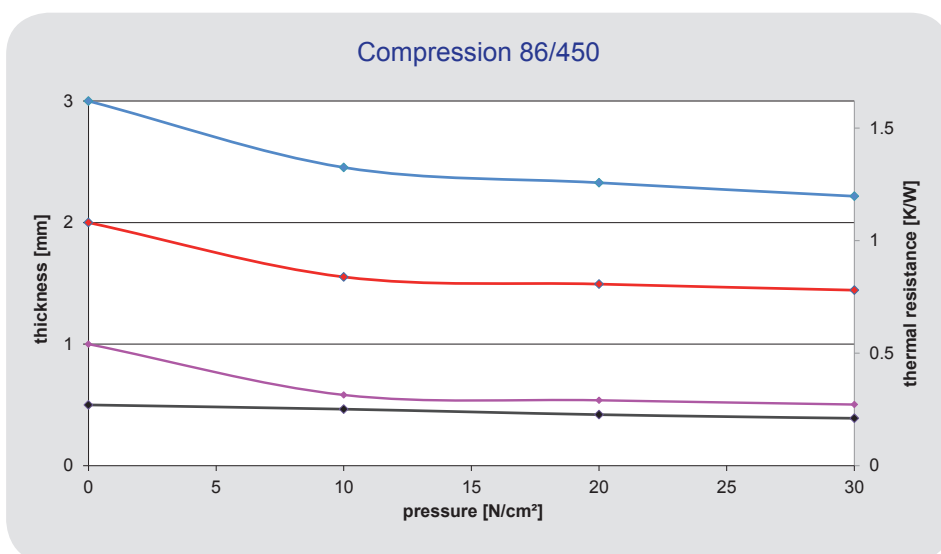
This group of Softtherm Films is characterized by its extremely high thermal conductivity. The single-layer films without fibre glass reinforcement are soft and compressible. The good dimensional stability of these films ensures a controlled and automated processing.

✓ Optionally available with onside adhesive coating **86/450K**

Properties	Unit	86/450
Colour		brown
Assembly		single layer, without fibre glass reinforcement
Thermal Properties		
Thermal resistance R_{th}	K/W	0.27
Thermal impedance R_{ti}	$^{\circ}\text{Cmm}^2/\text{W}$	108
	Kin^2/W	0.18
Thermal conductivity λ	W/mK	4.5
Electrical Properties		
Breakdown voltage $U_{d, ac}$	kV	5
Dielectric breakdown $E_{d, ac}$	kV/mm	10
Volume resistivity	Ωm	3.6×10^{12}
Dielectric loss factor $\tan \delta$	1	145×10^{-3}
Dielectric constant ϵ_r	1	2.5
Mechanical Properties		
Measured thickness (+/-10%)	mm	0.500
Hardness	Shore 00	65 - 75
Young's modulus	N/cm ²	94.5
Physical Properties		
Application temperature	$^{\circ}\text{C}$	-40 to +180
Density	g/cm ³	1.32
Total mass loss (TML)		< 0.4
Flame rating	UL-94	V-0**
Possible thickness *	mm	0.5 - 4.0

*details see page 61

**Kerafol test according to UL



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.

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