



# *kaiflex*<sup>®</sup> ST

Designed to prevent condensation and energy losses

- Closed cell structure with in-built water vapour barrier
- Inherently resistant to corrosion
- Excellent thermal values minimise energy loss
- Flexible, dust and fibre free nature
- Inherent resistance to microbial growth



## Kaiflex ST Technical Data

<b>Material</b>		Elastomeric foam based on synthetic rubber. Flexible Elastomeric Foam (FEF) in acc. with EN 14304	
<b>Cell structure</b>		Closed cell	
<b>Colour</b>		Black	
<b>Upper temperature limit</b>	Pipe Flat surfaces	+110 °C +85 °C	
<b>Lower temperature limit</b>		-50 °C (-200 °C)	See remark (1)
<b>Thermal conductivity</b>	$\lambda_0$ at -10 °C at 0 °C at +10 °C	$0,034 + 7,2 \cdot 10^{-5} \vartheta + 1,2 \cdot 10^{-6} \vartheta^2$ $\leq 0,033 \text{ W/(m-K)}$ $\leq 0,034 \text{ W/(m-K)}$ $\leq 0,035 \text{ W/(m-K)}$	Test acc. to DIN EN ISO 8497 DIN EN 12667
<b>Water vapour permeability</b>	Moisture resistance factor $\mu$	$\geq 10.000$ No separate vapour barrier required	Test acc. to DIN EN 13469 DIN EN 12086
<b>EuroClass <sup>o</sup></b>	Tubes Sheets	B <sub>L</sub> -s3, d0 B-s3, d0	Test acc. to DIN EN 13501-1
<b>Practical fire behaviour</b>		Self-extinguishing, no drips, does not support flame spread	
<b>Fire performance</b>		Class 0	In acc. with UK building regulations
<b>Surface spread of Flame</b>		Class 1	Test acc. to BS 476-7
<b>Fire propagation</b>	Total index of performance Sub Index 1	<12 <6	Test acc. to BS 476-6
<b>Corrosion resistance</b>		Satisfies requirements	Test acc. to DIN 1988
<b>Insulation material index number acc. to AGI</b>	Tubes Sheets	36.12.02.05.04 36.07.02.05.04	
<b>Health aspects</b>		Dust & fibre free Heavy metal (e.g. cadmium, lead) and formaldehyde free	
<b>Resistance to</b>	Mould and bacteria	no growth	In acc. with VDI 6022
<b>Other attributes</b>	pH-Value	CE marked Neutral	
<b>Other certificates / approvals</b>		UL-approved (UL94) FM-approved DNV, Lloyd's Register, See BG	In acc. with UL94 V-0, HF-1
<b>Shelf life</b>	Self-adhesive products	1 year	Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C)
<b>Tolerances</b>		In acc. with DIN EN 14304:2013-04	
<b>Outdoor applications</b>		Needs protection against UV-radiation	See remark (2)

Remark (1) For temperatures below -50 °C please contact our Technical Support Team for advice.

Remark (2) To protect against UV-induced deterioration Kaiflex should be either painted using Kaifinish Color paint or covered with a suitable UV resistant cladding system within 3 days of being installed outdoors.

<sup>o</sup> The Euroclass rating applies to metallic or solid mineral substrates.

