

NEW: KaiCene®-Technology

Tubes uncoated

NEW: INCERAM®-Cladding

Sheets coated



## **kaiflex**® *KK plus s1*

Uncompromising. Because safety comes first!

- Our new safety standard for busy public and commercial buildings
- Low smoke development and high flame retardancy provide additional personal safety in the event of a fire
- Active fire protection, thanks to INCERAM-Cladding (sheets coated)
- Minimizes reliably energy loss
- Effectively prevents water vapour diffusion and thus maintains the systems long-lasting insulating effect
- Easy to use, thanks to KaiCene-Technology (tubes uncoated)
- High system reliability with pipe supports Kaifix PSplus s1, tape and glue



## Kaiflex KKplus s1 Technical Data

<b>Material</b>		Elastomeric foam based on synthetic rubber. Flexible Elastomeric Foam (FEF) in acc. to EN 14304 Tubes uncoated (KaiCene-Technology), sheets with INCERAM-Cladding.	
<b>Cell structure</b>		Closed cell	
<b>Colour</b>		Black/Anthracite	
<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>	$\lambda_{\theta}$ at -10 °C at 0 °C at +10 °C	$0,038 + 8,0 \cdot 10^{-5} \theta + 1,2 \cdot 10^{-7} \theta^2$ $\leq 0,037 \text{ W/(m-K)}$ $\leq 0,038 \text{ W/(m-K)}$ $\leq 0,039 \text{ W/(m-K)}$	Test acc. to DIN EN ISO 8497 DIN EN 12667
<b>Water vapour permeability</b>	Moisture resistance factor $\mu$	$\geq 10.000$	Test acc. to DIN EN 13469 DIN EN 12086
<b>Euroclass <sup>o</sup></b>	Tubes Sheets	B <sub>L</sub> -s1, d0 B-s1, d0	Test acc. to DIN EN 13501-1
<b>Practical fire behaviour</b>		Self-extinguishing, no drips, does not support flame spread	
<b>Fire resistance classification (DIN 4102-11) with rubber</b>		R 90	(ABP) Nr.: P-MPA-E-14-001
<b>Corrosion resistance</b>		Satisfies requirements	In acc. with DIN 1988
<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>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 1 day of being installed outdoors.

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

