



## *kaiflex*<sup>®</sup> **KK** plus s3

The insulation for the cooling sector

- Euroclass B-s3, d0
- Reliably prevents condensation,  $\mu \geq 10.000$
- High thermal efficiency,  $\lambda \leq 0,033 \text{ W/(m}\cdot\text{K)}$  bei 0 °C
- Reliable long term performance
- Inherent resistance to microbial growth



**KAIMANN**  
SAINT-GOBAIN

### Kaiflex KKplus s3 Technical Data

<b>Material</b>		Elastomeric foam based on synthetic rubber. Flexible Elastomeric Foam (FEF) in acc. to EN 14304	
<b>Cell structure</b>		Closed cell	
<b>Colour</b>		Black	
<b>Upper temperature limit</b>	Flat surfaces	+85 °C	
<b>Lower temperature limit</b>		-50 °C (-200 °C)	See remark (1)
<b>Thermal conductivity</b>	$\lambda_{10}$ at -10 °C at 0 °C at +10 °C	$0,033 + 7,2 \cdot 10^{-5} \vartheta + 1,2 \cdot 10^{-6} \vartheta^2$ $\leq 0,032 \text{ W/(m}\cdot\text{K)}$ $\leq 0,033 \text{ W/(m}\cdot\text{K)}$ $\leq 0,034 \text{ W/(m}\cdot\text{K)}$	Test acc. to 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 12086
<b>Euroclass <sup>°</sup></b>		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	Test acc. to BS 476-6
<b>Fire resistance classification in acc. with DIN 4102-11</b>		R 90	(ABP) Nr.: P-MPA-E-14-001
<b>Corrosion resistance</b>		Satisfies requirements	In acc. to DIN 1988
<b>Insulation material index number acc. to AGI</b>		36.07.02.05.04	
<b>Health aspects</b>		Fibre free: For high hygiene requirements 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>		FIW-audited (European Insulation Keymark Scheme for Thermal Insulation Products) FM-approved DNV, Lloyd's Register, See BG	035-FIW-2-008.0-01
<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>°</sup> The Euroclass rating applies to metallic or solid mineral substrates.

