

kaiflex 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





Designed to prevent condensation and energy losses

Kaiflex ST Technical Data

Material Blastomic from based on synthetic rubber. Fleeble Eastome From (FEF) in acc., with EN 14304 Second columnation of the Pick Beautiful From (FEF) in acc., with EN 14304 Image: w	Raillex 31 Technical Data			
Colour Black Head of the perature limit Pop Center perature limit 411 ° C + 45 ° C Lower temperature limit Pop Center perature limit 45 ° C (200 ° C) See remark (1) Thermal conductivity A₂ (0.034 * 7.2 · 10 ° 0 + 1.2 · 10 ° 0 ° 1.2 · 10 ° 0 ± 1.2 · 10 °	Material		Flexible Elastomeric Foam (FEF)	
Upper temperature limit Pipe Flat surfaces +110 ° ° c +85 ° c -110 ° ° c -48 ° c -110 ° c<	Cell structure		Closed cell	
Upper temperature limit Falt surfaces +85 °C Ceremont See remark (1) Lower temperature limit 2, 0.34 °C (−200 °C) See remark (1) Thermal conductivity 2, 0.34 °C (−200 °C) 1.03 °C (−200 °C) <	Colour		Black	
Commerted Flat surfaces	Upper temperature limit	Pipe	+110 °C	
Thermal conductivity λ₀ at −10 °C at 10 °C at 0 °C a		Flat surfaces	+85 °C	
Thermal conductivity at −10 °C at 0 °C at 0 °C at +10 °C so.034 W/(m·K) ≤0.034 W/(m·K) Test acc. to DIN EN 156 8497 DIN EN 12657 Water vapour permeability Moisture resistance factor μ at +10 °C so.035 W/(m·K) ≥10.000 Test acc. to DIN EN 13469 DIN EN	Lower temperature limit		-50 °C (-200 °C)	See remark (1)
Thermal conductivity at 0 ° C at + 10 ° C at + 1	Thermal conductivity	λ_{ϑ}	$0.034 + 7.2 \cdot 10^{-5} \vartheta + 1.2 \cdot 10^{-6} \vartheta^2$	DIN EN ISO 8497
At 0 °C at +10 °C ≤0,034 W/(m K) DIN EN 12667		at -10 °C	≤0,033 W/(m·K)	
Water vapour permeability Moisture resistance factor μ No separate vapour barrier required Test acc. to DIN EN 13469 DIN EN 12086 EuroClass ° Tubes Sheets B _r -s3, d0 Test acc. to DIN EN 13501-1 Practical fire behaviour Self-extinguishing, no drips, does not support flame spread Image: spread of Flame		at 0 °C	≤0,034 W/(m·K)	
Water vapour permeability No separate vapour barrier required DIN EN 13469 DIN EN 12086 EuroClass ° Tubes Sheets B,-s3, d0 Test acc. to DIN EN 13501-1 Practical fire behaviour Self-extinguishing, no drips, does not support flame spread Less 0 In acc. with UK building regulations Fire performance Class 0 In acc. with UK building regulations Test acc. to BS 476-7 Fire propagation Total index of performance Sub Index 1 < 12		at +10 °C	≤0,035 W/(m·K)	
EuroClass * Tubes Sheets B _x -s3, d0 B _x -s3, d0 B _x -s3, d0 Test acc. to DIN EN 13501-1 Practical fire behaviour Image: Class 0 B _x -s3, do B	Water vapour permeability	Moisture resistance factor µ	≥10.000	DIN EN 13469
Tubes Sheets Bs3, d0 Fest acc. to DIN EN 13501-1			No separate vapour barrier required	
EuroClass ° Sheets B-s3, d0 Test acc. to DIN EN 13501-1 Practical fire behaviour Self-extinguishing, no drips, does not support flame spread Self-extinguishing, no drips, does not support flame spread Fire performance Class 0 In acc. with UK building regulations Surface spread of Flame Class 1 Test acc. to BS 476-7 Fire propagation Total index of performance sub linex 1 <-6 Sub Index 1 Satisfies requirements Test acc. to BS 476-6 Corrosion resistance Tubes 36.12.02.05.04 36.07.02.05.04 36.07.02.05.04 36.07.02.05.04 Health aspects Mould and bacteria Dust & fibre free Heavy metal (e.g. cadmium, lead) and formaldehyde free In acc. with VDI 6022 Other attributes pH-Value CE marked Neutral In acc. with UL94 V-0,HF-1 Other certificates / approvals UL-approved (UL94) FM-approved In acc. with UL94 V-0,HF-1 Shelf life 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) Tolerances In acc. with DIN EN 14304:2013-04	EuroClass ^o	Tubes	B ₁ -s3, d0	
Practical fire behaviour Self-extinguishing, no drips, does not support flame spread Fire performance Class 0 In acc. with UK building regulations Surface spread of Flame Class 1 Test acc. to BS 476-7 Fire propagation Total index of performance Sub Index 1 <12 Test acc. to BS 476-6 Corrosion resistance Satisfies requirements Test acc. to DIN 1988 Insulation material index number acc. to AGI Tubes Sheets 36.12.02.05.04 Test acc. to DIN 1988 Health aspects Mould and bacteria Dust & fiber free Heavy metal (e.g. cadmium, lead) and formaldehyde free free Heavy metal (e.g. cadmium, lead) and formaldehyde free free Ph-Value In acc. with VDI 6022 Other attributes Ph-Value CE marked Neutral In acc. with UL94 V-O,HF-1 Other certificates / approvals End of the products Vul-approved (UL94) FM-approved DNV, Lloyd's Register, See BG In acc. with UL94 V-O,HF-1 Shelf life Self-adhesive products 1 year Store in a dry room at a typical relative hundridly (between 0 °C and +35 °C) Tolerances In acc. with DIN EN 14304:2013-04				
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Fire propagation Total index of performance Sub Index 1 <12 Test acc. to BS 476-6 Corrosion resistance Satisfies requirements Test acc. to DIN 1988 Insulation material index number acc. to AGI Tubes Sheets 36.12.02.05.04 Health aspects Dust & fibre free Heavy metal (e.g. cadmium, lead) and formaldehyde free Heavy metal (e.g. cadmium, lead) and formaldehyde free PH-Value In acc. with VDI 6022 Other attributes PH-Value CE marked Neutral Neutral Other certificates/approvals In acc. with UL94 V-0,HF-1 Shelf life 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) Tolerances In acc. with DIN EN 14304:2013-04	Fire performance		Class 0	In acc. with UK building regulations
Fire propagation Sub Index 1 <6 Test acc. to BS 476-6 Corrosion resistance Satisfies requirements Test acc. to DIN 1988 Insulation material index number acc. to AGI Tubes Sheets 36.12.02.05.04 Health aspects Dust & fibre free Heavy metal (e.g. cadmium, lead) and formaldehyde free CE marked Resistance to Mould and bacteria no growth In acc. with VDI 6022 Other attributes PH-Value VL-approved (UL94) In acc. with UL94 V-0,HF-1 Other certificates/approvals FM-approved DNV, Lloyd's Register, See BG Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Tolerances In acc. with DIN EN 14304:2013-04	Surface spread of Flame		Class 1	Test acc. to BS 476-7
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DNV, Lloyd's Register, See BG Shelf life 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) Tolerances In acc. with DIN EN 14304:2013-04	Other certificates / approvals		UL-approved (UL94)	In acc. with UL94 V-0,HF-1
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Shelf life Self-adhesive products 1 year humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Tolerances In acc. with DIN EN 14304:2013-04			DNV, Lloyd's Register, See BG	
	Shelf life	Self-adhesive products	1 year	humidity (between 50 % and 70 %) and room temperature (between 0 °C
Outdoor applications Needs protection against UV-radiation See remark (2)	Tolerances		In acc. with DIN EN 14304:2013-04	
	Outdoor applications		Needs protection against UV-radiation	See remark (2)

Remark (1) For temperatures below $-50~^{\circ}\text{C}$ 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.

One The Euroclass rating applies to metalic or solid mineral substrates.







