

kaiflex® BluEco



Designed to be free of halogens

Kaiflex BluEco, free from halogens, Chlorines, Bromines and Deca Bromine, combines excellent thermal energy saving properties with technically superior fire and smoke performance.

As a flexible closed cell Nitrile rubber foam insulation with a low thermal conductivity, Kaiflex BluEco not only minimises energy loss but also prevents condensation and protects against pipe corrosion.

Fully tested according to all relevant international standards, Kaiflex BluEco delivers the fire and smoke performance essential for sensitive transport, computing and offshore locations. Kaiflex BluEco also excels when tested against the new Scandinavian test procedure NT Fire 036, achieving the highest possible categorisation of PI.

- Free of Halogens
- Free of Chlorines, Bromines and Deca Bromine
- Low smoke toxicity
- Flexible, dust and fibre free, nature allows for ease of installation
- Moisture and corrosion resistant closed cell structure



Kaiflex BluEco Technical Specification

Polymer		NBR blend	
Cell Structure		Closed Cell	
Colour		Black / Blue	
Upper Temperature Limit	pipe flat surface	+110°C +90°C	
Lower Temperature Limit		-40°C	see remark (1)
Thermal Conductivity	at 0°C at +40°C	0.040 W/(m·K) 0.045 W/(m·K)	Test acc. to EN 12667 & ISO 8497
Water Vapour Barrier		In-built	
Water Vapour Resistance	Moisture Resistance Factor μ	$\geq 2\ 000$	Test acc. to EN 12086 & EN 13469
Fire Performance	Euroclass Material Class Flame spread Smoke/Toxicity test Surface Flammability test	E PI 0 mm/min. Passed Passed	Test acc. to EN 13501 acc. NT Fire 036 acc. FMVSS 302 acc. IMO (FTP Code part 2/ISO 5659-2) acc. IMO (FTP Code part 5)
Reaction to Fire		Self-extinguishing, does not drip	
Environmental Aspects		ODP zero GWP zero Cadmium free	
Health Aspects		Dust & Fibre free Formaldehyde free	
Resistance to ...	Mould	Excellent	
Other attributes	PH-value Chlorine content Bromide content Halogen content	Neutral Free Free Free	
Outdoor applications		Needs protection against UV- radiation	see remark (2)

Remark (1) For temperatures below -40°C please ask our Technical Support Team for advice.

Remark (2) Kaiflex BluEco needs protection against UV-radiation. Please paint with Kaiflex KaiFinish to the recommended thickness within 3 days.

Kaiflex BluEco tolerances: thickness & length

Insulation thickness mm	6	9	10	13	19	25	≥ 32	Length all thicknesses	Width all thicknesses
Tubes	± 1.0 mm	± 1.5 mm	± 1.5 mm	± 1.5 mm	± 2.5 mm	± 2.5 mm	± 3.0 mm	$\pm 1.5\%$	
Sheet	± 1.0 mm	-	± 1.5 mm	± 1.5 mm	± 1.5 mm	± 2.0	± 2.0	$\pm 1.5\%$	$\pm 2.0\%$
Rolls	± 1.0 mm	-	± 1.5 mm	± 1.5 mm	± 1.5 mm	± 2.0	± 2.0	+ 5.0% / - 1.5%	$\pm 2.0\%$

Kaiflex BluEco tubes

Colour: black; Length: 2 m

Copper Pipe Cu			Iron & Steel pipe Fe			13 mm Insulation Thickness			19 mm Insulation Thickness		
NB inch	Nom OD inch	Nom OD mm	NB inch	Nom OD mm	Min ID mm	Reference	m / carton		Reference	m / carton	
	3/8	10		10.2	11.0	BE-13x010	152				
3/8	1/2	12		12	13.0	BE-13x012	136		BE-19x012	78	
1/2	5/8	15		13.5	16.0	BE-13x015	120		BE-19x015	72	
		18		17.2	19.0	BE-13x018	106		BE-19x018	60	
3/4	7/8	22	1/2	21.3	23.0	BE-13x022	84		BE-19x022	56	
1	1 1/8	28	3/4	26.9	29.0	BE-13x028	72		BE-19x028	40	
1 1/4	1 3/8	35	1	33.7	36.0	BE-13x035	50		BE-19x035	36	
1 1/2	1 5/8	42	1 1/4	42.4	43.5	BE-13x042	40		BE-19x042	32	
			1 1/2	48.3	49.5	BE-13x048	36		BE-19x048	24	
2	2 1/8	54			55.0	BE-13x054	32		BE-19x054	22	
			2	60.3	61.5	BE-13x060	24		BE-19x060	18	
2 13/16	3	76.1	2 1/2	76.1	77.0	BE-13x076	18		BE-19x076	16	
			3	88.9	90.5	BE-13x089	16		BE-19x089	12	

Copper Pipe Cu			Iron & Steel pipe Fe			25 mm Insulation Thickness					
NB inch	Nom OD inch	Nom OD mm	NB inch	Nom OD mm	Min ID mm	Reference	m / carton				
	3/8	10			11.0						
3/8	1/2	12			13.0						
1/2	5/8	15			16.0	BE-25x015	50				
		18			19.0	BE-25x018	40				
3/4	7/8	22	1/2	21.3	23.0	BE-25x022	36				
1	1 1/8	28	3/4	26.9	29.0	BE-25x028	32				
1 1/4	1 3/8	35	1	33.7	36.0	BE-25x035	24				
1 1/2	1 5/8	42	1 1/4	42.4	43.5	BE-25x042	22				
			1 1/2	48.3	49.5	BE-25x048	18				
2	2 1/8	54			55.0	BE-25x054	18				
			2	60.3	61.5	BE-25x060	16				
2 13/16	3	76.1	2 1/2	76.1	77.0	BE-25x076	12				
			3	88.9	90.5	BE-25x089	12				

- Delivery time for all Kaiflex BluEco products: 10 working days
- 9 mm tubes are available upon request



Kaiflex BluEco continuous sheet

Colour: black;							
Continuous Sheet							
Insulation Thickness mm	Width m	Length m	Reference	m ² / carton			
6	1	18	BE-PL06-R	18			
10	1	10	BE-PL10-R	10			
13	1	8	BE-PL13-R	8			
19	1	6	BE-PL19-R	6			
25	1	4	BE-PL25-R	4			

Kaiflex BluEco self-adhesive tape

Colour: black;					
Insulation Thickness mm	Width mm	Length m	Reference	rolls / carton	
3	50	15	BE-TAPE	12	

- Delivery time for all Kaiflex BluEco products: 10 working days
- 3 mm continuous sheet available upon request



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foam technology of tomorrow

Kaimann GmbH · School House Business Centre · Brideoak Street, Waterhead · Oldham · Greater Manchester · OL4 2HB · Phone +44 (0) 161 627 3289
Fax +44 (0) 161 880 2551 · Email info.uk@kaimann.com · www.kaimann.co.uk · © 2013 Kaimann GmbH · All rights reserved.

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