

kaiflex[®] SOLAR EPDM plus 2in2



Designed to improve solar hot water efficiency

Kaiflex Solar EPDMplus 2in2 is supplied as twin coils of corrugated stainless steel pipe that is pre-insulated with solar grade EPDM insulation. Kaiflex Solar EPDMplus 2in2 connects solar panels to storage cylinders while minimising energy loss, keeping solar water hot long into the colder months.

Kaiflex Solar EPDMplus 2in2 is based on naturally UV-resistant EPDM rubber and comes with an additional co-extruded foil pre-applied that deters accidental and deliberate damage and vandalism over long periods of time.

The corrugated pipe is specifically designed for to withstand high solar temperatures and pressures. By incorporating a corrugated structure the pipe can be effortlessly bent around the tightest bends and Kaiflex Solar EPDMplus 2in2 is fully compatible with all standard solar panels, cylinders, pumps and fittings.

- Foil covering protects against UV and mechanical impact
- Identifies flow and return
- Compliant with modern solar hot water systems
- Robust insulation ensures separation causes no damage
- Pre-insulated twin pipes, joined for convenience, split for flexibility



Kaiflex Solar EPDMplus 2in2 Technical Data

Description		Twin coils of corrugated stainless steel pipe pre-insulated with high temperature Kaiflex EPDM insulation with a tough co-extruded foil covering.	
Material (pipe)		Corrugated stainless steel pipe	
Corrugated stainless steel pipe	Type	1.4404 / AISI 316L	Test acc. to DIN EN ISO 10380
	Upper temperature limit	+600 °C	
	Lower temperature limit	-270 °C	
	Type test	Audited	
	Operating pressure at +20 °C	The permissible operating pressure was evaluated with 4-fold safety. This statement is based on the tier-system of the rated pressure in acc. with the norm stated.	Test acc. to DIN EN ISO 10380
Cell structure		Closed cell	
Colour		Black	
Upper temperature limit		+150 °C (+175 °C)	See remark (1)
Lower temperature limit		-50 °C	See remark (2)
Thermal conductivity	λ_{θ}	$0.038 + 8.0 \cdot 10^{-5} \cdot \theta + 7.0 \cdot 10^{-7} \cdot \theta^2$	Test acc. to DIN EN ISO 8497
	at -10 °C	$\leq 0.037 \text{ W/(m}\cdot\text{K)}$	
	at 0 °C	$\leq 0.038 \text{ W/(m}\cdot\text{K)}$	
	at +10 °C	$\leq 0.039 \text{ W/(m}\cdot\text{K)}$	
Euroclass[°]	Euroclass	E _L	Test acc. to DIN EN 13501-1
Practical fire behaviour		Self-extinguishing, no drips, does not support flame spread	
Packaging		76 x 76 cm	See remark (3)
Outdoor applications		No additional protection against UV-radiation required	

Remark (1) For temperatures above +150 °C please contact our Technical Support Team for advice.

Remark (2) For temperatures below -50 °C please contact our Technical Support Team for advice.

Remark (3) Robust cardboard packaging and end caps protect the pipe work during transport.

[°] The Euroclass rating applies to metallic or solid mineral substrates.

Kaiflex Solar EPDMplus 2in2 Technical Data · Corrugated stainless steel pipe

Nom ID mm	ID mm	OD mm	Pipe wall thickness mm	Min. bending radius mm	Max. operating pressure mm	Content l/m	Width mm	Height mm	Lengths m
16	16.3	21.4	0.2	25	16	0.273	100	50	10, 15, 20, 25, 50
20	20.5	26.7	0.2	30	10	0.430	110	55	10, 15, 20, 25, 50
25	25.4	31.8	0.2	35	10	0.633	120	60	10, 15, 20, 25, 50

Kaiflex Solar EPDMplus 2in2 VA Pre-insulated pipe



Colour: Black - Delivery including extension-fitting-set

Corrugated stainl. steel pipe Va		14 mm Wall thickness				
OD mm	Nom ID mm	Reference	Order No.	Ø pipe + insulation mm	cartons/ palette	m/ carton
21.4	16	SOLAR-VA-14x16/10	4004643	100	10	10
21.4	16	SOLAR-VA-14x16/15	4004644	100	10	15
21.4	16	SOLAR-VA-14x16/20	4004645	100	7	20
21.4	16	SOLAR-VA-14x16/25	4004646	100	6	25
21.4	16	SOLAR-VA-14x16/50 * °	4004647	100	4	50
26.7	20	SOLAR-VA-14x20/10	4004648	110	10	10
26.7	20	SOLAR-VA-14x20/15	4004649	110	8	15
26.7	20	SOLAR-VA-14x20/20	4004650	110	6	20
26.7	20	SOLAR-VA-14x20/25	4004651	110	4	25
26.7	20	SOLAR-VA-14x20/50 * °	4004652	110	4	50
31.8	25	SOLAR-VA-14x25/10	4004653	120	8	10
31.8	25	SOLAR-VA-14x25/15	4004654	120	6	15
31.8	25	SOLAR-VA-14x25/20	4004655	120	4	20
31.8	25	SOLAR-VA-14x25/25	4004656	120	4	25
31.8	25	SOLAR-VA-14x25/50 * °	4007736	120	4	50

* Custom length of 50 metres per wooden drum upon request. Delivery in full packing units only.

° Delivery without fitting-set

