



IT-FLEX SYSTEM COVER

- ★ Composite insulation system with external protection
- ★ Closed-cell microcellular structure
- ★ Excellent insulation performance
- ★ High water vapour diffusion resistance
- ★ High mechanical resistance
- ★ Quick and easy to install
- ★ λ at 0 °C $\leq 0,036$ W/m•K
- ★ $\mu \geq 7000$ (elastomeric insulation) - $\mu \geq 15000$ (covering)

IT-FLEX SYSTEM COVER

Technical data sheet (ELASTOMERIC INSULATION IT-FLEX C1)

Rev. 02/17 A

MATERIAL	Closed-cell flexible elastomeric foam (FEF).
PRODUCT SPECIFICATION	Flexible and expanded rubber foam thermal insulation material produced in accordance with the European Standard EN 14304.
PRODUCT RANGE	Standard and self-adhesive tubes in bars or continuous rolls with diameters from 15 to 170 mm and thicknesses from 6 to 60 mm. Sheets in rolls or panels, standard or self-adhesive, with thicknesses from 6 to 60 mm. Adhesive tapes with a thickness of 3 mm.
PRODUCT APPLICATION	Thermal insulation of HVAC, refrigeration systems and industrial applications. Also suitable for external use (C1R version)
MAIN CHARACTERISTICS	CFC and HCFC-free rubber foam. Does not contain or release dust or fibres.

Technical Information	Reference data	Test Standards
SERVICE TEMPERATURE Maximum temperature of transported fluids Minimum temperature of transported fluids	+ 110 °C - 45 °C *	EN 14706 - 14707
THERMAL CONDUCTIVITY λ	At mean temp. of 0 °C \leq 0,036 W/m•K At mean temp. of 40 °C \leq 0,040 W/m•K	EN ISO 8497 - EN 12667
WATER VAPOUR DIFFUSION FACTOR μ	\geq 7000	EN 12086 - EN 13469
REACTION TO FIRE	EUROCLASS { TUBES C _L , s2, d0 SHEETS B, s3, d0 TAPE B, s2, d0	EN 13501 - 1
CORROSION RISK	MEETS TEST REQUIREMENTS	EN 13468
OZONE RESISTANCE	EXCELLENT	ISO 7326
UV RESISTANCE	GOOD	UNI ISO 4892 - 2
DIMENSIONAL TOLERANCES	In accordance with table 1 - European Standard EN 14304	
REACTION TO FIRE OF THE COMPLETE SYSTEM (ELASTOMER + CLADDING)	EUROCLASS { TUBES C _L , s2, d0 SHEETS and TAPES E	EN 13501 - 1

* NOTE: for lower temperature applications please contact our technical dept.

For self adhesive sheets and tapes, the maximum service temperature is 85 °C.

Documents and certifications are available upon registration on our website: www.evocell.it

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All normatives quoted in this document are updated to the latest issued versions.

IT-FLEX SYSTEM COVER

Technical data sheet (EXTERNAL PROTECTIVE COVER)

Rev. 02/17 B

MATERIAL	Self wrapping multilayer coating of PVC/ALU/UV protection films.
PRODUCT SPECIFICATION	Protective covering of insulated pipeworks
PRODUCT RANGE	Rolls, tapes, elbows and special shapes with a thickness of 230 µm.
PRODUCT APPLICATION	Surface covering and finishing of insulations.
MAIN CHARACTERISTICS	Also suitable for external applications.

Technical Information	Reference data	Test Standards
TOTAL WEIGHT	340 g/mq	EN 22 286
THICKNESS	approx. 230 µm	
BREAKING LOAD	MD 200 N/ 15mm-CD 175 N/15mm	EN ISO 527-3
ELONGATION	MD 48% - CD 51%	EN ISO 527-3
TEAR STRENGTH	MD 70 N - CD 28 N	EN ISO 527-3
BORING RESISTANCE	∅ 0,8 mm 23 N - ∅ 0,3 mm 87 N	pr EN 14 477
TEAR STRENGHT (NAIL)	MD 50 N - CD 42 N	EN 12310-1
LOI (Oxigen Index Limit)	35,5% O ₂	ASTEM D 2863 - ISO 4589
UV RESISTANCE (Stability Test)	EXCELLENT	ASTEM G 26 - ISO 4892 - 2
WATER VAPOUR DIFFUSION	< 0,028 g/mq/d	ASTM F 1429 - ISO 15106 - 2
SD (Equivalent stratus of air)	> 1500 m	
EMISSIVITY ε	94%	
SERVICE TEMPERATURE	from -25 °C to +65 °C	
REACTION TO FIRE	Class 0 - B1	BS 476 part 6 & 7 - DIN 4102 - 1
RADIANT PANEL INDEX	0,50	ASTM E 162 - 02
Flame	1 (at 1,5 min) - 3 (at 4,5 min)	ASTM E 662 - 03
No flame	0 (at 1,5 min) - 0 (at 4,5 min)	ASTM E 662 - 03
REACTION TO FIRE OF THE COMPLETE SYSTEM (ELASTOMER + CLADDING)	EUROCLASS { TUBES C _L , s2, d0 SHEETS and TAPES E	EN 13501 - 1

For self adhesive sheets and tapes, the maximum service temperature is 85 °C.

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DIMENSIONAL TOLERANCES SPECIFIED BY EUROPEAN PRODUCT STANDARD EN 14304

Dimensions in mm

Key: D_i = inside diameter - D_{iD} = inside nominal diameter (Ref. Tubes) - d_D = Nominal thickness

Form of delivery	Length	Width	Thickness		Squareness	Inside diameter	
			Declared	Tolerance		$D_i \leq 100$	$D_i > 100$
Tubes	$\pm 1,5\%$	-	$d_D \leq 8$	± 1	3,0 mm	$D_{iD} + 1 \leq D_i \leq D_{iD} + 4$	$D_{iD} + 1 \leq D_i \leq D_{iD} + 6$
			$8 < d_D \leq 18$	$\pm 1,5$	-		
			$18 < d_D \leq 31$	$\pm 2,5$	-		
			$d_D > 31$	± 3	-		
Sheets	$\pm 1,5\%$	$\pm 2\%$	$d_D \leq 6$	± 1	3,0 mm/m (length/width)	-	-
			$6 < d_D \leq 19$	$\pm 1,5$	-		
			$d_D > 19$	± 2	3,0 mm (thickness)		
Rolls	+ 5% - 1.5%	$\pm 2\%$	$d_D \leq 6$	± 1	3,0 mm/m (length/width)	-	-
			$6 < d_D \leq 19$	$\pm 1,5$	-		
			$d_D > 19$	± 2	3,0 mm (thickness)		
Tapes	+ 5% - 1.5%	$\pm 2\%$	$d_D = 3$	- 0.1 + 1,5	-	-	-

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