

EUROBATEX[®] PEN/PEAL

Insulating sheets made of CFC and HCFC free closed-cell flexible elastomeric foam (FEF) in accordance with the European Standard EN 14304.

Protected by an external PE coating with a scratch-resistant embossed finishing (in either aluminium or black colour) that guarantees **excellent mechanical resistance**. These insulating sheets are especially suitable for the thermal insulation of refrigeration, air conditioning and heating & plumbing services in commercial, industrial and domestic applications.

APPLICATIONS FIELDS



Industrial



Air Conditioning



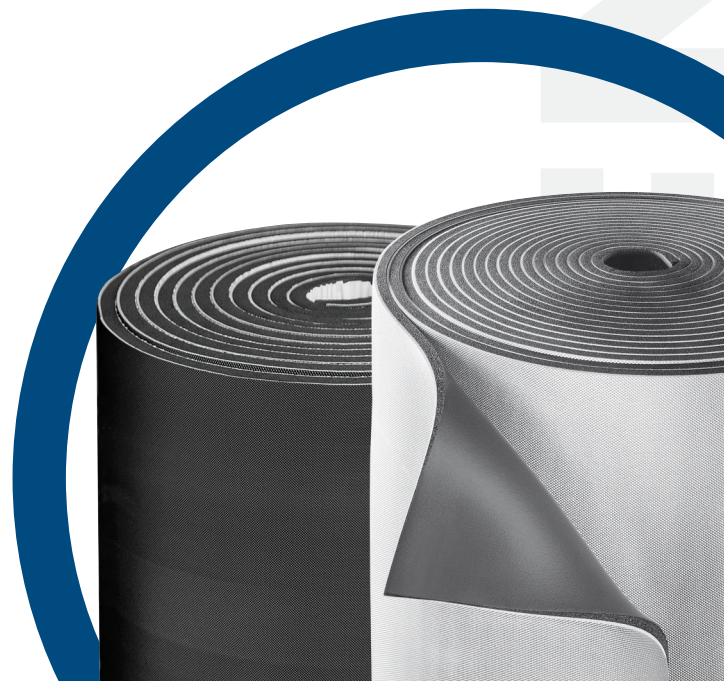
Building



Refrigeration



Heating & Plumbing



EUROBATEX® PEN/PEAL

TYPE OF MATERIAL:	Black closed-cell flexible elastomeric foam (FEF) coupled with a 3 mm layer of reticulated PE foam and exterior embossed finishing PE film in either black or aluminium colour
PRODUCT RANGE:	Sheets in rolls (also available in self-adhesive version) with thicknesses from 6 mm to 50 mm (plus the 3 mm thick covering)
FIELDS OF APPLICATION:	Thermal insulation of refrigeration, air conditioning and heating & plumbing services in commercial, industrial and domestic applications
DIMENSIONAL TOLERANCES:	In accordance with the European Standard EN 14304
ENVIRONMENTAL INFORMATION:	Flexible and expanded CFC and HCFC-free rubber foam. It does not damage the ozone layer (ODP zero) and does not contribute to the greenhouse effect (GWP zero).
ADDITIONAL INFORMATION:	Self-adhesive material: acrylate based adhesive coating reinforced with mesh structure. Protection liner made of polyolefin foil. Traces of silicon can be found on the foil protecting the self-adhesive coating
STORAGE CONDITIONS/SHELF LIFE:	Store the material in a dry and clean environments at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. Self-adhesive products should not be kept in storage for more than one year

PHYSICAL PROPERTIES	RESULT OBTAINED		TEST METHOD
OPERATING TEMPERATURE RANGE*	-45 °C +110 °C		EN 14706
THERMAL CONDUCTIVITY	At a mean temperature of 0 °C	Sheets: ≤32 mm: $\lambda \leq 0,033$ W/m·K Sheets: >32 mm: $\lambda \leq 0,034$ W/m·K	EN 12667
	At a mean temperature of +40 °C	Sheets: ≤32 mm: $\lambda \leq 0,037$ W/m·K Sheets: >32 mm: $\lambda \leq 0,038$ W/m·K	
WATER VAPOUR DIFFUSION RESISTANCE FACTOR	$\mu \geq 10000$		EN 12086
FIRE PERFORMANCE	European Standard Euroclass	E	EN 13501-1
UV RESISTANCE	PEN	Good	UNI ISO 4892-2
	PEAL	Excellent	
CORROSION RISK	Meets test requirements		EN 13468

*NB: for application at lower temperatures please contact our technical department. For self-adhesive sheets and tapes, the maximum operating temperature is +90 °C.

System 3 CE Marking in accordance with the European Standard EN 14304.

All the normatives quoted in this document are updated to the latest issued version. Union Foam S.p.A. reserves the right to modify any information at any time without prior notice.

CHARACTERISTICS OF THE PEN/PEAL COVERINGS

CHARACTERISTICS OF THE COVERING IN RETICULATED PE FOAM, THICKNESS 3 mm

PHYSICAL PROPERTIES	RESULT OBTAINED		TEST METHOD
DENSITY	29 ± 10 kg/m ³		ISO 845
TENSILE STRENGTH	Squareness	0,24 MPa	ISO 1798
	Transverse	0,18 MPa	
ELONGATION AT BREAK	Squareness	125%	ISO 1798
	Transverse	120%	
COMPRESSION RESISTANCE	10%	15 kPa	ISO 3386-1
	25%	33 kPa	
	50%	88 kPa	
COMPRESSION SET 25% (22h, 23 °C)	After 0,5h	20%	ISO 1856
	After 24h	13%	
COMPRESSION SET 50% (22h, 23 °C)	After 0,5h	44%	ISO 1856
	After 24h	34%	
DIMENSIONAL STABILITY	100 °C		ISO 2796

CHARACTERISTICS OF THE COVERING IN PE, THICKNESS 35 µm (BLACK OR ALUMINIUM)

PHYSICAL PROPERTIES	RESULT OBTAINED		TEST METHOD
THICKNESS	35 µm		Internal test
DENSITY	0,922 g/m ³		Internal test
TENSILE STRENGTH	MD	23 - 27 MPa	ASTM D882A
	TD	18 - 23 MPa	
ELONGATION AT BREAK	MD	200 - 300%	ASTM D882A
	TD	750- 850%	
SOFTENING POINT (Vicat)	96 °C		ASTM D1525

EUROBATEX® PEN

Eurobatex sheet coupled with reticulated PE coat covered with black (PEN) embossed film

CONTINUOUS ROLLS 1000 mm WIDTH

SELF-ADHESIVE

Item No.	Thickness mm	m ² /box
06EUR R PEN S	6 + 3	30
10EUR R PEN S	10 + 3	20
13EUR R PEN S	13 + 3	14
16EUR R PEN S	16 + 3	12
19EUR R PEN S	19 + 3	10
25EUR R PEN S	25 + 3	8
32EUR R PEN S	32 + 3	6

Item No.	Thickness mm	m ² /box
06EUR R PENAD S	6 + 3	30
10EUR R PENAD S	10 + 3	20
13EUR R PENAD S	13 + 3	14
16EUR R PENAD S	16 + 3	12
19EUR R PENAD S	19 + 3	10
25EUR R PENAD S	25 + 3	8
32EUR R PENAD S	32 + 3	6

Different thicknesses available on request
Material not in stock, produced on request – lead time 15 workdays



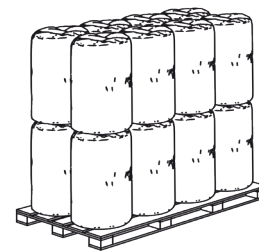
Single packaging:



Pallet dimensions:

120 x 210 x 282 cm
Volume = 7,10 m³
Bags/pallet = 20

120 x 210 x 228 cm
Volume = 5,74 m³
Bags/pallet = 16



PEN SELF-ADHESIVE TAPE

Item No.	Description	pcs/ct
FPE 1,5 PEN 25M	1,5 mm thickness PE foam tape + black colour embossed film: width 50 mm x 25 m length	12



EUROBATEX® PEAL

Eurobatex sheet coupled with reticulated PE coat covered with aluminium colour (PEAL) embossed film

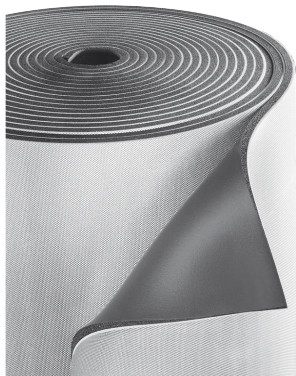
CONTINUOUS ROLLS 1000 mm WIDTH

SELF-ADHESIVE

Item No.	Thickness mm	m ² /box
06EUR R PEAL S	6 + 3	30
10EUR R PEAL S	10 + 3	20
13EUR R PEAL S	13 + 3	14
16EUR R PEAL S	16 + 3	12
19EUR R PEAL S	19 + 3	10
25EUR R PEAL S	25 + 3	8
32EUR R PEAL S	32 + 3	6

Item No.	Thickness mm	m ² /box
06EUR R PEALAD S	6 + 3	30
10EUR R PEALAD S	10 + 3	20
13EUR R PEALAD S	13 + 3	14
16EUR R PEALAD S	16 + 3	12
19EUR R PEALAD S	19 + 3	10
25EUR R PEALAD S	25 + 3	8
32EUR R PEALAD S	32 + 3	6

Different thicknesses available on request
Material not in stock, produced on request – lead time 15 workdays



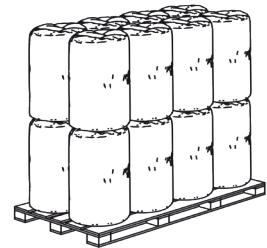
Single packaging:



Pallet dimensions:

120 x 210 x 282 cm
Volume = 7,10 m³
Bags/pallet = 20

120 x 210 x 228 cm
Volume = 5,74 m³
Bags/pallet = 16



PEAL SELF-ADHESIVE TAPE

Item No.	Description	pcs/ct
FPE 1,5 PEAL 25M	1,5 mm thickness PE foam tape + aluminium colour embossed film: width 50 mm x 25 m length	12



CNX S ADHESIVE

Item No.	Description	pcs/ct
CNX 850 S	850 g - 1000 ml tin	12
CNX 425 S	425 g - 500 ml tin	24
CNX 200 S	200 g - 225 ml tin including brush	24



THERMAL INSULATION PRODUCTS FOR BUILDING EQUIPMENT AND INDUSTRIAL INSTALLATIONS. FACTORY MADE FLEXIBLE ELASTOMERIC FOAM (FEF) PRODUCTS

Dimensional tolerances specified by the European product Standard EN 14304

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



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