

# POLISOLAN PE 80 R

Polisolan PE 80 R is a CFC and HCFC free closed cell flexible polyethylene foam pipe insulation material. Polisolan PE 80 as additionally a polymeric surface coating factory applied that improves resistance to mechanical abuse and gives a composite product which can be used outdoors without any further weather protection. Both products are suitable for a range of domestic and commercial applications including frost protection, condensation control and energy conservation.

## APPLICATIONS FIELDS



**Building**



**Refrigeration**



**Heating & Plumbing**



**Oil & Gas**



**Air Conditioning**



## POLISOLAN PE 80 R

<b>TYPE OF MATERIAL:</b>	Closed cell polyethylene foam (PEF) with a black polyethylene scratch resistant film
<b>PRODUCT RANGE:</b>	Tubes in pipe sections in thickness from 6mm to 10mm and diameters from 12mm to 60mm
<b>FIELDS OF APPLICATION:</b>	Thermal insulation of refrigeration, air conditioning and heating & plumbing services in commercial, industrial and domestic applications
<b>DIMENSIONAL TOLERANCES:</b>	In accordance with the European Standard EN 14313
<b>ENVIRONMENTAL INFORMATION:</b>	Expanded CFC and HCFC-free foam. It does not damage the ozone layer (ODP zero) and does not contribute to the greenhouse effect (GWP zero)
<b>STORAGE CONDITIONS/SHELF LIFE:</b>	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

PHYSICAL PROPERTIES	RESULT OBTAINED		TEST METHOD
<b>OPERATING TEMPERATURE RANGE *</b>	-45 °C +110 °C		EN 14706 - UNI ISO 188
<b>THERMAL CONDUCTIVITY</b>	At a mean temperature of 0 °C	Thk. 6 mm: $\lambda \leq 0,037$ W/m·K Thk. $\geq 10$ mm: $\lambda \leq 0,041$ W/m·K	DIN 52613
	At a mean temperature of +40 °C	Thk. 6 mm: $\lambda \leq 0,041$ W/m·K Thk. $\geq 10$ mm: $\lambda \leq 0,045$ W/m·K	
<b>WATER VAPOUR DIFFUSION RESISTANCE FACTOR</b>	$\mu \geq 15000$		EN 13469 / DIN 52615
<b>FIRE PERFORMANCE</b>	European Standard Euroclass	B <sub>L</sub> -s1,d0	EN 13501-1
<b>RESISTANCE TO DEFORMATION</b>	Excellent		

\*NB: for application at lower temperatures please contact our technical department.

**System 1 CE Marking** in accordance with the European Standard EN 14313.

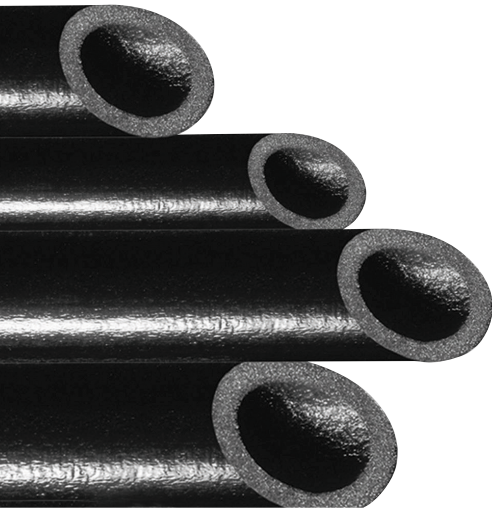
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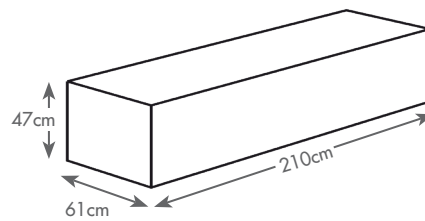
Polyethylene foam with scratch resistant coating

## PIPE SECTION 2 m LENGTH

Copper pipe		Steel pipe			Thickness 6 mm		Thickness 10 mm	
Ext. Ø mm	Ext. Ø inches	Ext. Ø mm	DN	NPS	Item No. thickness x ID	m/ct	Item No. thickness x ID	m/ct
12	1/2				06 - 12POL R	730	10 - 12POL R	460
14		13,5	8	1/4	06 - 14POL R	660	10 - 14POL R	430
16					06 - 16POL R	570	10 - 16POL R	380
18		17,2	10	3/8	06 - 18POL R	480	10 - 18POL R	340
22	7/8	21,3	15	1/2	06 - 20POL R	450		
28	1 1/8	26,9	20	3/4	06 - 22POL R	390	10 - 22POL R	260
35	1 3/8	33,7	25	1	06 - 25POL R	320		
42	1 5/8	42,4	32	1 1/4	06 - 27POL R	280	10 - 27POL R	220
48		48,3	40	1 1/2	06 - 34POL R	220	10 - 34POL R	170
60		60,3	50	2	06 - 43POL R	180	10 - 43POL R	126
76,1		76,1	65	2 1/2			10 - 49POL R	112
88,9		88,9	80	3			10 - 61POL R	80

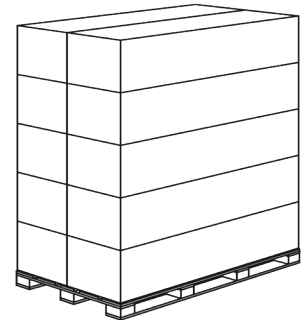


**Packaging dimensions:**  
(volume = 0,6 m<sup>3</sup>)



**Pallet dimensions:**

120 x 210 x 247 cm  
Volume = 6,2 m<sup>3</sup>  
Box/pallet = 10



## 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	$\pm 1,5\%$	-	$d_o \leq 8$	$\pm 1$	3,0 mm	$D_{iD} + 1 \leq D_i \leq D_{iD} + 4$	$D_{iD} + 1 \leq D_i \leq D_{iD} + 6$
			$8 < d_o \leq 18$	$\pm 1,5$			
			$18 < d_o \leq 31$	$\pm 2,5$			
			$d_o > 31$	$\pm 3$			
Sheets	$\pm 1,5\%$	$\pm 2\%$	$d_o \leq 6$	$\pm 1$	3,0 mm/m (length/width) 3,0 mm (thickness)	-	-
			$6 < d_o \leq 19$	$\pm 1,5$			
			$d_o > 19$	$\pm 2$			
Rolls	+ 5% - 1.5%	$\pm 2\%$	$d_o \leq 6$	$\pm 1$	3,0 mm/m (length/width) 3,0 mm (thickness)	-	-
			$6 < d_o \leq 19$	$\pm 1,5$			
			$d_o > 19$	$\pm 2$			
Tapes	+ 5% - 1.5%	$\pm 2\%$	$d_o = 3$	- 0.1 + 1,5	-	-	-



Union Foam S.p.A.  
 via dell'Industria 8  
 20882 Bellusco (MB) Italy  
 tel. +39.039.62089.1  
 sales@unionfoam.it  
 www.unionfoam.it