



## PUR/ PIR



**PUR - Polyurethane insulation**  
**PIR - Polyisocyanurate insulation**

- PUR / PIR foam blown without HCFC
- Excellent insulating properties
- Available in pipe sections, slabs etc.



## PUR / PIR

PUR (Polyurethane) and PIR (Polyisocyanurate) foam segments, are high-quality insulating materials with excellent properties and are supplied in pipe sections and slabs. Other types available on request. Standard densities are 33 (PIR) and 35 (PUR), other densities are also available. PUR / PIR foam is blown without HCFC.

PUR and PIR (M1/ B2 classified) are used extensively on equipment and piping operating at lower temperatures in power stations, marine vessels, petrochemical plants, oil refineries etc.

Properties	Standard	Unit	PUR 35	PIR 33
Density	ASTM D 1622	kg/m <sup>3</sup>	35 +/- 2	min 33
Compressive strength	ASTM D 1621	kPa	240 +/- 40	210 +/- 60
	DIN 53421	kPa	170 +/- 40	180 +/- 60
Tensile strength	ASTM D 1623	kPa	510 +/- 50	270 +/- 50
	DIN 53430	kPa	320 +/- 50	240 +/- 50
Closed cell	ASTM D 2856	%	>=90	>=90
Content	Proc A			
Thermal conductivity	ASTM C 518			
	ISO 8301			
	Initial (10°C)	mW/mK	21 +/- 2	21 +/- 2
	Aged (10°C)	mW/mK	26 +/- 2	26 +/- 2
Friability	ASTM C 421	%	15 +/- 5	35 +/- 5
Water absorption	ASTM D 2842 ISO 2896	max %	+ 5 + 5	
Water vapour transmission	ASTM E96 ISO R 1663	g/m <sup>2</sup> 24H	30 +/- 10	35 +/- 10
Lin. expansion	-	10 <sup>E</sup> -06 mm/mmK	50 – 70	40 – 70
Temperature	-	°C	-200 to 100	-200 to 120
Dim. stability	ASTM D 2126 ISO 2796			
Length and width Thickness	24 H 93°C	max %	1,5	1,5
		mm	+/- 0,5	+/- 0,5
Length and width Thickness	24 H -30°C	max %	-1	-1
		mm	+/- 0,5	+/- 0,5
Length and width Thickness	24 H70°C 95% RH	max %	3	3
		mm	+/- 0,5	+/- 0,5
Fire Properties	ISO 3582			
	BS 4735	max mm	10	
	NF P92-501		M1	
	DIN 4102		B2	
	Fireproof number		5.3	

Also available a High Temperature Foam ( +200°C) with higher Compressive and Tensile Strength.