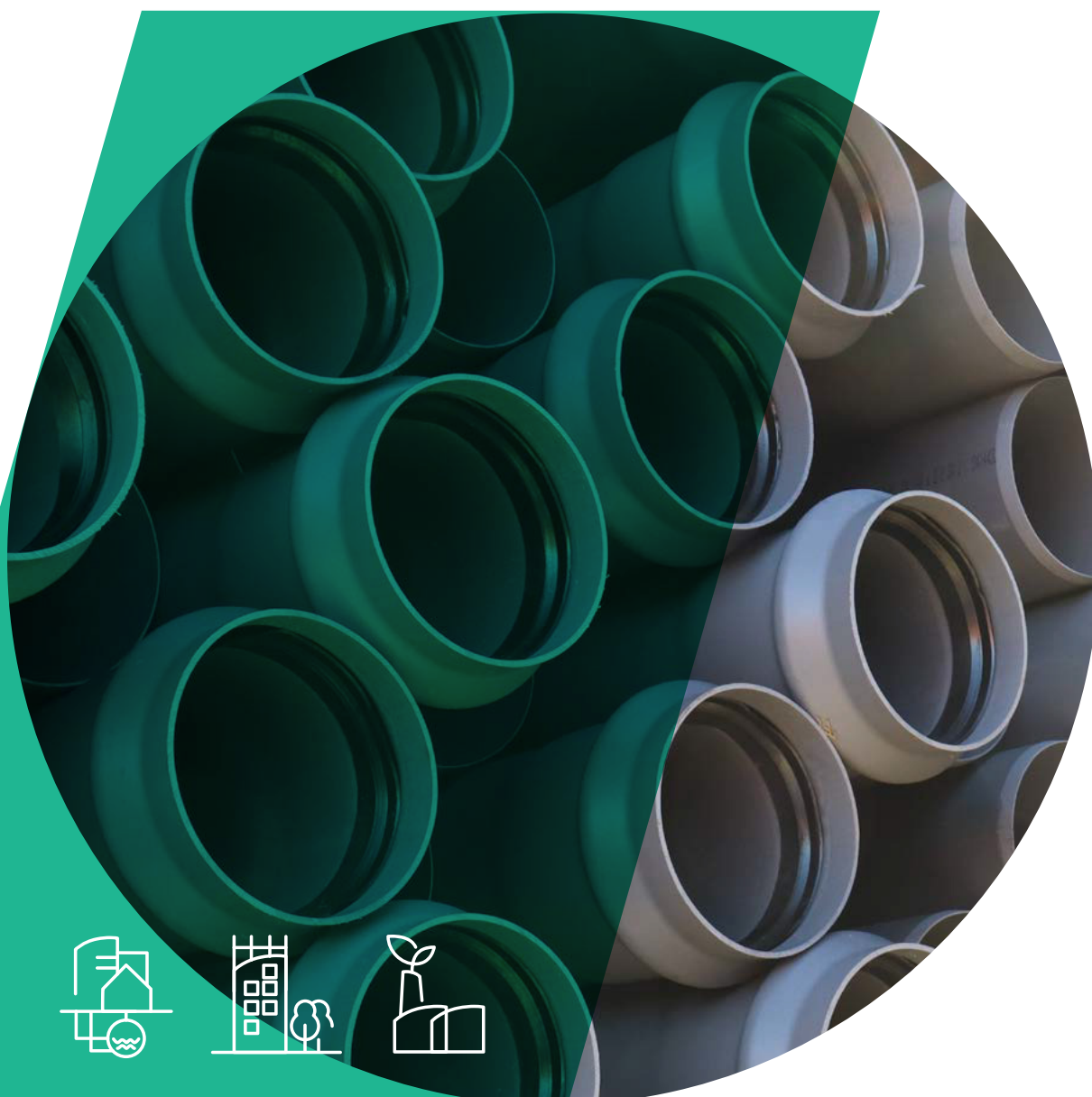


Solutions for a green future

HIDROPRESS
CD05R00



www.politejo.com

The best thermoplastic solutions for infrastructure networks



Politejo Group was founded in 1978, as an industry specialized in the manufacture of thermoplastic solutions and its main activity is the production of pipes and plastic accessories for the water supply, waste water, irrigation, electricity and telecommunications.

Our strategy is based on the constant innovation of products and services, with a skilled team, able to understand the needs associated with the various sectors and present highly reliable solutions, longevity that allow the conservation of water resources and the environment.

The success of Politejo Group is based on the profile of its employees, with a family-oriented management, due to the strategic location of its manufacturing units and their complete solutions.

This profile enabled a notable growth throughout the last 40 years, and currently Politejo Group is present in Angola, Brazil, Spain, Mozambique and Portugal, with a view to expanding to new locations.

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RANGE PRODUCED AND DIMENSIONS



The following tables show the standard dimensions according to the reference standard EN ISO 1452.

Dimensions of the male terminal

Outside diameter (mm)		Wall thickness (mm)										Ovalisation (mm)		
Nominal	Medium		6 bar		8 bar		10 bar		12,5 bar		16 bar		S 20 S 16	S 12,5 S 10 S 6,3 S 5
Ø	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
63	63.0	63.3	1.9	2.3	2.5	3.0	3.0	3.5	3.8	4.4	4.7	5.4	1.5	0.8
75	75.0	75.3	2.2	2.7	2.9	3.4	3.6	4.2	4.5	5.2	5.6	6.4	1.6	0.9
90	90.0	90.3	2.7	3.2	3.5	4.1	4.3	5.0	5.4	6.2	6.7	7.6	1.8	1.1
110	110.0	110.4	2.7	3.2	3.4	4.0	4.2	4.9	5.3	6.1	6.6	7.5	2.2	1.4
125	125.0	125.5	3.1	3.7	3.9	4.5	4.8	5.5	6.0	6.8	7.4	8.4	2.5	1.5
140	140.0	140.5	3.5	4.1	4.3	5.0	5.4	6.2	6.7	7.6	8.3	9.4	2.8	1.7
160	160.0	160.5	4.0	4.6	4.9	5.6	6.2	7.1	7.7	8.7	9.5	10.7	3.2	2.0

Outside diameter (mm)			Wall thickness (mm)										Ovalisation (mm)	
Nominal Ø	Medium		6 bar		8 bar		10 bar		12,5 bar		16 bar		S 20 S 16	S 12,5 S 10 S 6,3 S 5
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
200	200.0	200.6	4.9	5.6	6.2	7.1	7.7	8.7	9.6	10.8	11.9	13.3	4.0	2.4
250	250.0	250.8	6.2	7.1	7.7	8.7	9.6	10.8	11.9	13.3	14.8	16.5	5.0	3.0
315	315.0	316.0	7.7	8.7	9.7	10.9	12.1	13.6	15.0	16.7	18.7	20.8	7.6	3.8
400	400.0	401.2	9.8	11.0	12.3	13.8	15.3	17.1	19.1	21.3	23.7	26.3	9.6	4.8
500	500.0	501.5	12.0	13.8	15.3	17.1	19.1	21.3	23.9	26.5	29.7	32.9	12.0	6.0
630	630.0	631.9	15.4	17.2	19.3	21.5	24.1	26.8	30.0	33.2	-	-	15.2	7.6

Dimensions of the mouthpieces

Nominal diameter (mm)	Minimum mean inside diameter (mm)	Maximum inside ovalisation (mm)		Minimum depth of embarkation B _{min.} (mm)	Length of mouth entry A _{min.} (mm)
		S 20 S 16	S 12,5 S 10 S 6,3 S 5		
63	63.4	1.2	0.6	58	32
75	75.4	1.2	0.7	60	34
90	90.4	1.4	0.9	61	36
110	110.5	1.7	1.1	64	40
125	125.5	1.9	1.2	66	42
140	140.6	2.1	1.3	68	44
160	160.6	2.4	1.5	71	48
200	200.7	3.0	1.8	75	54
250	250.9	3.8	2.3	81	62
315	316.1	5.7	2.9	88	72
400	401.3	7.2	3.6	92	86
500	501.6	9.0	4.5	97	102
630	632.0	11.4	5.7	105	123

Size of the collar embouchures

Nominal diameter (mm)	Mean internal diameter of mouth (Di) (mm)	Maximum inside ovalisation (mm)	Minimum length of mouth (M) (mm)
63	63.1 – 63.3	0.4	37.5
75	75.1 – 75.3	0.5	43.5
90	90.1 – 90.3	0.6	51.0
110	110.1 – 110.4	0.7	61.0
125	125.1 – 125.4	0.8	68.5
140	140.2 – 140.5	0.9	76.0
160	160.2 – 160.5	1.0	86.0
200	200.2 – 200.6	1.2	106.0
250	250.3 – 250.8	1.5	131.0
280	280.3-280.9	1.7	146.0
315	315.4 – 316.0	1.9	163.5

Product testing

Essay	Standard	Parameters
Appearance, colour, dimensional control and marking	EN 1452	According to the standard
Longitudinal deformation	EN ISO 2505	≤ 5%
Maximum force at the point of creep	EN ISO 6259	> 45 MPa
Elongation at break	EN ISO 6259	> 80 %
Impact Resistance	EN ISO 3127	TIR < 10 %
Resistance to internal pressure at 20°C and 1 hour, σ 42.0 MPa.	EN ISO 1167	No Fault
Resistance to internal pressure at 60°C and 1000 hours, σ 12.5 MPa.	EN ISO 1167	No Fault
Internal pressure resistance with integrated mouthpiece	EN ISO 1167	No Fault
Softening temperature VICAT	EN ISO 2507	≥80 °C
Opacity	ISO 7686	< 0.2 %
Quantity VCM	ISO 6401	< 1 ppm
Density	ISO 1183	1350-1460 Kg/m ³
Maximum force at the point of creep	ISO 1183	1350-1460 Kg/m ³
Functional requirements	ISO 1183 / ISO 13485 / ISO 13486	No Fault

The tests shaded in the table above are an integral part of the certificate 3.1. When necessary contact commercial services.

Raw material characteristics

Feature	Unit	Value
Módulo de elasticidade a curto prazo	MPa	3600
Módulo de elasticidade a longo prazo	g/cm ³	1750
Coefficiente de dilatação térmica linear	mm/m°C	0,08
Conductividade térmica	Kcal/hm°C	0,16

Certification and marking of pipes

The product certificates are presented according to the commercial range.

Commercial Range	Organism	Certificate	Marking
HIDROPRES	AENOR	AENOR 001/XXX	AENOR 001/XXX POLITEJO HIDROPRESS PVC-U DN ___ x ___ PN ___ bar UNE-EN ISO 1452 (USO W/P) (DATE CODE) CE BATCH (BATCH CODE)
	SGS	SGS PT04/1297	POLITEJO HIDROPRESS PVC-U DN ___ x ___ PN ___ bar EN 1452 (USO W/P) (DATE CODE) SGS PT 04/XXX (BATCH CODE)

Presentation

The pipes are supplied on pallets, the table below shows the quantities per pallet and per truck. For minimum quantities please contact the sales department.

DN	Tubes/pallet	Metres/pallet
63	116	696
75	81	486
90	63	378
110	54	324
125	43	258
140	38	228
160	33	198
200	14	84
250	11	66
315	6	48
400	6	36
500	2	12
630	2/3	12/18

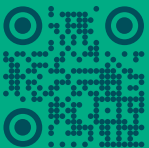
Environment

Separate the materials that make up the packaging of our products correctly. The following materials are possible in the composition of the packaging: Wood, polyester tape and recycled PE plastic to cover the pallet.

Our end products are recyclable after their useful life.



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