

Solutions for a green future

COLSAN
CD04R01



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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.

COLSAN

RANGE PRODUCED AND DIMENSIONS



The following tables show the standard dimensions in accordance with the standard EN 13476-2 for plastics piping systems for pressureless underground drainage and sewerage, for pipes with smooth inner and outer surfaces and the Type A.

Dimensions of the male terminal

Outside diameter (mm)			Thickness e_c (mm)			Thickness e_4 (mm)	Ovalisation (mm)
Nominal	Medium		SN2 SDR 51	SN4 SDR 41	SN8 SDR 34	Min.	
\emptyset	$d_{em, min}$	$d_{em, max}$	Min.	Min.	Min.		Min.
125	125,00	125,30	--	3,2	3,7	0,40	1,50
140	140,00	140,40	2,8	3,5	--	0,40	--
160	160,00	160,40	3,2	4,0	4,7	0,50	1,90
200	200,00	200,50	3,9	4,9	5,9	0,60	2,40
250	250,00	250,50	4,9	6,2	7,3	0,70	3,00
315	315,00	315,60	6,2	7,7	9,2	0,80	3,80
400	400,00	400,70	7,9	9,8	11,7	1,00	4,80
500	500,00	500,90	9,8	12,3	14,6	1,30	6,00

Dimensions of the mouthpieces

Nominal diameter (mm)	Minimum mean int.diameter ds (mm)	SN 2		SN 4		SN 8		Compression of mouth	
		e ₂ , min (mm)	e ₃ , min (mm)	e ₂ , min (mm)	e ₃ , min (mm)	e ₂ , min (mm)	e ₃ , min (mm)	A min (mm)	C min (mm)
125	125,00	-	-	2,9	2,4	3,4	2,8	35	26
160	160,00	2,9	2,4	3,6	3,0	4,3	3,6	42	32
200	200,00	3,6	3,0	4,4	3,7	5,4	4,5	50	40
250	250,00	4,5	3,7	5,5	4,7	6,6	5,5	55	70
315	315,00	5,6	4,7	6,9	5,8	8,3	6,9	62	70
400	400,00	7,1	6,0	8,8	7,4	10,6	8,8	70	80
500	500,00	8,9	7,4	11,1	9,3	13,2	11,0	80	80

Product testing

Essay	Standard	Parameters
Appearance, colour, dimensional control and marking	EN 13476-2	According to standard
Longitudinal deformation	EN ISO 2505	≤ 5%
Impact Resistance	EN ISO 3127	TIR ≤ 10%
Circumferential rigidity	EN ISO 9969	≥ SN declared
Flexibility	EN ISO 13968	No failure at 20/30%
Elongation at break	EN ISO 6259-1/2	≥ 80%
Creep coefficient	EN ISO 9967	≤ 2,5
Softening temperature VICAT	EN ISO 2507-1	≥ 79 °C
Functional requirements	ISO 13259 (B e C)	According to standard

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

Leakage test conditions

Parameters	Requirement	Method
Temperature	23 ± 2 °C	Condition B
Male Deformation	≥ 10%	
Mouth deformation	≥ 5%	
Difference	≥ 5%	
Water pressure	0,05 bar	No escape

Parameters		Requirement	Method
Water pressure	0,5 bar	No escape	Condition B
Air pressure	-0,3 bar	≤ 0,27 bar	
Temperature	23 ± 2 °C		Condition C
dn ≤ 315 mm	2°		
315 < dn ≤ 630 mm	1,5°		
dn > 630 mm	1°		
Water pressure	0,05 bar	No escape	
Water pressure	0,5 bar	No escape	
Air pressure	-0,3 bar	≤ 0,27 bar	

Certification and marking of pipes

The product certificates are presented according to the commercial range.

Commercial Range	Organism	Certificate	Marking
COLSAN	AENOR	AENOR 001/XXX	AENOR 001/XXX POLITEJO COLSAN PVC-U DN ___ x ___ SN ___ U UNE-EN 13476-2 (DATE CODE) CE BATCH (BATCH CODE)

Presentation

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

DN	Tubes/pallet	Metres/pallet
125	43	258
160	33	198
200	14	84
250	11	66
315	8	48
400	6	36
500	2	12

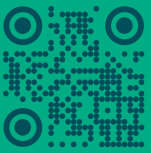
Environment

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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