



AIRcor Flex - White corrugated pipe for CMV

Description

Polyethylene pipe in coils for construction of civil and industrial CMV (Controlled Mechanical Ventilation) systems, made by continuous co-extrusion of two PE walls with high resistance to UV, both entirely white, provided with caps on both ends. Made with 100% virgin polyethylene and additive with special antistatic and antibacterial agents to counter the risks of dust deposition and bacterial and fungal proliferation, certified by accredited third-party laboratory.

The pipe will be produced by a company regularly enrolled at the Polieco Consortium D.Lgs. (152/2006 - art. 234) and with the following management systems:

- Quality, in accordance with UNI EN ISO 9001;
- Environment, in accordance with UNI EN ISO 14001;

certified and validated by an accredited third-party institution

The manufacturer applies a code of ethics and an organizational, management and control model in accordance with Legislative Decree 231/01 and can provide information on its economic, environmental and social (ESG) impacts as reported by a Sustainability Report in accordance with GRI Standards 2021 certified by an accredited third party.



The image is for illustrative purposes only

Characteristics of the raw material in granules

Medium Density	g/cm ³	≥ 0,93	EN ISO 1183-1
Melt flow Index (190°C: 5 Kg)	g/10 min	≤ 1,6	EN ISO 1133
Elastic modulus	MPa	≥ 800	ISO 527
Poisson's ratio	-	0.45	-

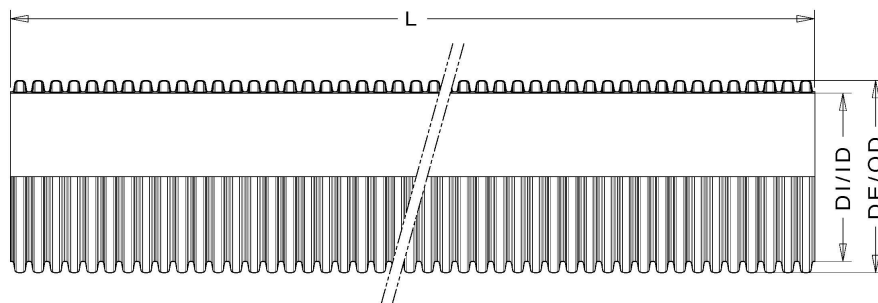
General Characteristic

Electrical characteristics	-	Antistatico	-
Bacteriological characteristics	-	ANTIBATTERICO ANTIFUNGINO SANITIZED	-
Chemical Characteristics	-	ALOGEN FREE	-
External wall material	-	HDPE	-
Internal wall material	-	MDPE	-
Limits of use	°C	-20 / +60	-
Impact resistance	J	20	EN 61386-1:2008 ed EN 61386-24:2010
Fire reaction class	-	Euroclasse E	UNI EN 13501
Internal ripple	-	<5%	-





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Dimensions

DE/OD [mm]	DI/ID [mm]	L* [m]	Average radius of curvature
63	52	50	220
75	63	50	270
90	73	50	330
110	92	50	400
125	105	50	450
160	137	50	580
200	171	25	720

* I valori indicati si riferiscono allo standard produttivo con tolleranze pari al 3%.

Marking

Ø DATA ORA UV SANITIZED

Packing rolls on pallets

DE/OD [mm]	Roll Dimensions (HxLxW) [cm]	Weight [kg]	Pallet Dimensions (HxLxW) [cm]	Rolls per pallet
63	38 x 90 x 90	13	230 x 200 x 100	16
75	36 x 117 x 117	15	255 x 110 x 110	7
90	40 x 120 x 120	21	255 x 120 x 120	6





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Fluid dynamic performance at 20 ° C - Velocity [m / s]

Q [m³/h]	DE63	DE75	DE90	DE110	DE125	DE160	DE200
5	0.66	0.45	0.34	0.21	0.17	0.1	0.07
10	1.31	0.9	0.67	0.42	0.33	0.19	0.13
15	1.97	1.34	1	0.63	0.49	0.29	0.19
20	2.62	1.79	1.33	0.84	0.65	0.38	0.25
25	3.27	2.23	1.66	1.05	0.81	0.48	0.31
30	3.93	2.68	2	1.26	0.97	0.57	0.37
40	5.24	3.57	2.66	1.68	1.29	0.76	0.49
50	6.54	4.46	3.32	2.09	1.61	0.95	0.61
60	7.85	5.35	3.99	2.51	1.93	1.14	0.73
70	9.16	6.24	4.65	2.93	2.25	1.32	0.85
80	10.47	7.13	5.31	3.35	2.57	1.51	0.97
90	11.78	8.02	5.98	3.77	2.89	1.7	1.09
100	13.08	8.92	6.64	4.18	3.21	1.89	1.21
150	19.62	13.37	9.96	6.27	4.82	2.83	1.82
200	26.16	17.83	13.28	8.36	6.42	3.77	2.42

Fluid dynamic performances at 20 ° C - Headloss [Pa / m]

Q [m³/h]	DE63	DE75	DE90	DE110	DE125	DE160	DE200
5	0.25	0.10	0.05	0.02	0.01	0.00	0.00
10	0.82	0.33	0.16	0.05	0.03	0.01	0.00
15	1.71	0.67	0.33	0.11	0.06	0.02	0.01
20	2.86	1.12	0.54	0.18	0.10	0.03	0.01
25	4.29	1.66	0.81	0.26	0.14	0.04	0.01
30	6.03	2.32	1.13	0.36	0.19	0.05	0.02
40	10.31	3.94	1.89	0.61	0.32	0.09	0.03
50	15.64	5.95	2.85	0.91	0.48	0.13	0.05
60	22.11	8.36	4.00	1.27	0.66	0.18	0.06
70	29.68	11.17	5.32	1.68	0.87	0.24	0.08
80	38.34	14.38	6.82	2.15	1.12	0.30	0.10
90	48.09	17.98	8.53	2.68	1.38	0.37	0.13
100	58.85	22.03	10.40	3.24	1.68	0.45	0.15
150	129.27	47.95	22.52	6.94	3.58	0.95	0.32
200	226.88	83.81	39.18	11.99	6.14	1.61	0.54





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Headloss diagram at 20°C

