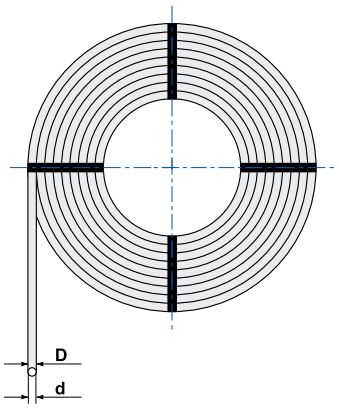
ART. PA12 Tubo Poliammide
Polyamide tube



CODICE	Dxd mm.	P bar	P1 bar	R mm.	
PA120402 (*)	4 x 2	37	130	20	100
PA120425	4 x 2,5	32	112	20	100
PA120427	4 x 2,7	23	80	25	100
PA120604	6 x 4	26	90	30	100
PA120806	8 x 6	20	70	40	100
PA121007 (*)	10 x 7	25	88	70	100
PA121008	10 x 8	15	52	60	100
PA121210	12 x 10	12	42	85	100
PA121412	14 x 12	11	33	90	100

Nota: le misure contrassegnate con asterisco sono disponibili solo su richiesta.
Notice: (*) = sizes available on demand only.

[N] = Neutro/Neutral, [B] = Nero/Black, [BU] = Azzurro/Light Blue, [G] = Verde/Green, [R] = Rosso/Red, [Y] = Giallo/Yellow

Scala di correzione in funzione della Temperatura
Adjusting scale on atmospheric temperature basis

- 20°C	0°C	+23°C	+30°C	+40°C	+50°C	+60°C	
1.87	1.4	1	0.80	0.60	0.50	0.40	

D = diametro esterno – external diameter
d = diametro interno – internal diameter
P = pressione di esercizio – working pressure
P1 = pressione di scoppio – breaking pressure
R = raggio di curvatura – bending radius
= rotolo confezione – roll packing

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POLYURETHANE TUBE

TECHNICAL PROPERTY:

Hardness Shore A	98
Temperature working range	- 20°C +70°C
Breaking Elongation	540% (DIN 53504)
Density (gr./cm^3)	1,18 (DIN 53479)
Abrasion loss (mm^3)	55 (DIN 53516)
Tensile strenght (N/mm^2)	120 (DIN 53515)

TECHNICAL FEATURES:

Excelent resistance at the abrasion
Good resistance at the atmospheric effects
Good process of becomming old
High flexbility at the lowest temperatures
Extremely endeavor resistance
Very low “click” and “stress cracking” effects

OTHER FEATURES:

Tolerances: O.D. +/-0,1 mm Thickness +/-0,1 mm
Colours avalaible: Light blue, Red, Black, Green, Yellow, Neutral, Cristal blue, Cristal
Packing: 100 mt. Rolls in plastic film

MAIN APPLICATIONS:

Pneumatic, Robotic, agriculture, garage, etc.

GENERAL NOTICES:

Polyurethane tube material has excelent mechanical features and it is particularly addressed to mostly solve the heavy applications.
Anyway polyurethanes, althoughthey are much resistant at the endeavor and at the flexion stress, trend to keep heat when working with continuous variable pressure and in case of high atmosphere temperature it could bring to the swelling or breaking of the tubing itself, specially on sizes 8x6, 10x8, 14x12.
Polyurethane is normally also resistant to ozone, hydrocarbon, oils and greases, fuel and moderate chemical solutions.
It is not, or very low, resistant to concentrated acids, ketons, esters and clhloride hydrocarbons.

POLYAMIDE TUBE

The polyamide is the most diffused material among the technical applications for its characteristics of flexibility and mechanical performances.

CHARACTERISTICS:

High mechanicl properies to traction and to continuous & alternate flexion, notable flexibility, good stability to heat, notable resistance to ageing, law water absorption, notable resistance to hydrocarbons and oils and good inertness to chemical agents.

MECHANICAL/PHYSICAL PROPERTIES	TRIAL METHOD	VALUE
Density	ASTM D-792	1,03g/cm^3
Hardness	ASTM D-2240	65ShD
Elongation at break	ASTM-D638	>300%
Elastic modulus	ASTM D-790	410MPa
Working pressure	-	-40°C/+70°C

Tolerances: O.D. +/- 0,1 mm Thickness +/-0,1 mm
Colours avalaible: Light blue, black, red and neutral.
Packing: 100 mt. Rolls in plastic film

APPLICATION:

This kind of material is particularly indicated for the realization of tubing for pneumatic, robotic, steel, industrial machineries, ecc..., when there is the necessity of notable flexibility.

REFERENCE NORMS:

ISO 1874 - DIN 73378 - DIN 74324

POLYETHYLENE TUBE

The polyethylene is maybe the most diffused polymer in the technical and industrial applications. This material, so versatile, has a very easy structure, the easiest of all the commercial polymers. The Polyethylene tubing are particularly indicated for all the applications where there aren’t specific problems of pressures and too high temperatures.

CHARACTERISTICS:

High impact resistance, law sensibility to “click” and “stres cracking” effect, excellent resistance to chemical agents, totally recyclable, good electrical properties, optimal flexibility.

MECHANICAL/PHYSICAL PROPERTIES	TRIAL METHOD	VALUE
Density	ASTM D1505	0,921g/cm^3
Elongation at break	ASTM D882B MD/SL/L	400%
Tear resistence	ASTM D1922 MD/SL/L	30N/mm
Impact resistance	ASTM D1709	310g
Tensile strength at break	ASTM D882B MD/SL/L	26MPa
Working temperature	-	-20°/+60°C

Tolerances: O.D. +/- 0,1 mm Thickness +/-0,1 mm
Colours avalaible: Light blue and neutral.
Packing: 100 mt. Rolls in plastic film

APPLICATION:

This kind of material results to be particularly indicated for applications as water treatments, chemical industry, agriculture, irrigation, ecc....

NORMATIVES:

Suitable for food contact, according to D.M. 21/03/73 and follows adjournments, according to Directive 90/127/CEE, according to FDA CFR177.1520, according to European Phamacopoeia.

NOTES:

It’s recommended to avoid to plant the polyethylene tubing with fittings that deforms its extremity, because this material doesn’t resist to enlargment over than 15%. “Creep” problems could verify with fittings not suitable.

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