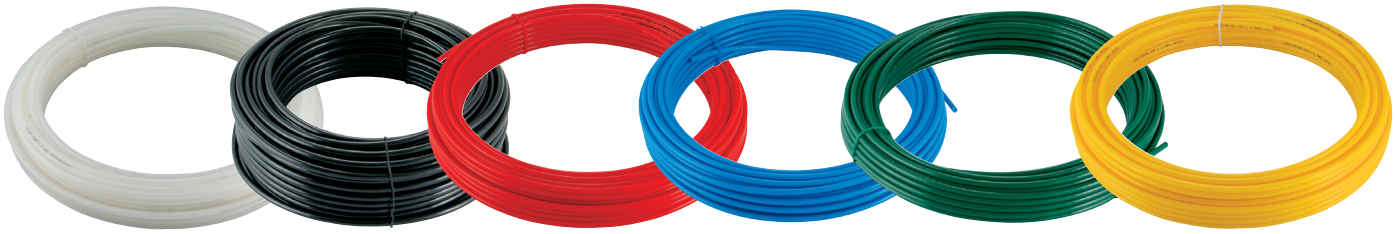
Nylon 12 Tubes

BS 5409, DIN 73378 and DIN 74324



Temp: 40ºC to + 100ºC

Media: Clean Compressed Air

Raw Material Properties

- Density: 1,02 g/cm^3
- Shore/Hardness: 65 D
- Melting point: 173ºC
- Water absorption: % 1,4
- Humidity absorption: % 0,7

Physical Properties

- High impact resistance at low temperatures
- UV and heat stability
- High pressure resistance
- Weathering resistance
- Easy to use with fittings
- Hydrolysis resistance
- Excellent diameter sensitivity
- Zinc chloride resistance
- High resistance for fuel, oil and grease oil (see over page)

ID mm	Wall Thickness mm	OD mm	Max. Working Pressure Bar	Bending Radius mm	Burst Pressure Bar
1.8	0.60	3.0	31	6	93
2.0	1.00	4.0	36	10	108
2.5	0.75	4.0	31	10	93
3.0	1.00	5.0	30	15	90
4.0	1.00	6.0	30	15	90
6.0	1.00	8.0	29	24	77
7.0	1.50	10.0	27	42	71
8.0	1.00	10.0	22	50	66
9.0	1.50	12.0	31	45	93
10.0	1.00	12.0	21	90	63
11.0	1.50	14.0	31	80	93

Chemical Resistance Table

		PA	PE	PVC	PUR
		Polyamide	Polyethylene	Polyvinyl chloride soft	Polyurethane
1	Acetic acid	4	2	3	3
2	Acetic acid anhydride	1	3	4	4
3	Acetone	1	1	5	4
4	Aluminium salts, aq	1	4	1	2
5	Alums, aq	1	1	1	1
6	Aminobenzoic acid	2	1	3	4
7	Ammonia, aq	1	1	1	4
8	Ammonia, g	1	1	1	1
9	Ammonium acetate, aq	1	1	1	4
10	Ammonium carbonate, aq	1	1	1	4
11	Ammonium chloride, aq	1	1	1	1
12	Ammonium nitrate, aq	1	1	1	1
13	Ammonium phosphate, aq	1	1	1	1
14	Ammonium sulfate, aq	1	1	1	1
15	Amylalcohol	1	1	1	2
16	Antifreeze	1	1	1	2
17	Barrium salts	1	1	1	1
18	Battery acid	3	1	3	1
19	Beef tallow	3	1	2	1
20	Beer	1	1	1	1
21	Benzaldehyde	1	1	3	3
22	Benzoic acid	1	1	3	4
23	Benzoic acid, aq	1	1	1	4
24	Bone fat	1	2	3	1
25	Boric acid	1	1	1	1
26	Brake fluid	1	3	3	4
27	Bromine, aq	4	4	4	4
28	Bromine, l	4	4	4	4
29	Butane, g	1	4	1	1
30	Butane, l	1	1	2	1
31	n-Butanol	1	4	3	4
32	n-Butyl alcohol	1	4	4	4
33	Butylacetate (acetic acid butyl ester)	4	4	5	4
34	Butylacetate	1	2	4	4
35	Calcium chloride, aq	1	1	1	1
36	Calcium nutrate, aq	1	1	1	1
37	Carbon disulfide	1	4	4	3
38	Carbon tetrachloride	1	4	4	3
39	Carnation oil	1	4	2	1
40	Chlorine, g	4	4	4	4
41	Clholire, l	4	4	4	4
42	Chlorobenzoic acid	3	4	4	3
43	Chloroform	3	4	4	4
44	Chlorosulfonic acid	4	4	4	4
45	Chrome bath	4	1	1	3
46	Chromic acid	4	2	3	4
47	Chromosulfuric acid	4	1	2	3
48	Chromiurn salts	4	1	1	3
49	Citric acid	1	1	1	2
50	Cleaner	1	1	1	1
51	Coca-Cola	1	1	1	1
52	Cocua	1	1	1	1
53	Coconut oil	1	2	1	1
54	Cod-liver	1	1	4	1
55	Coffee	1	1	1	1
56	Cooking oil, animal	1	3	2	2
57	Cooking oil, vegateble	1	4	2	2
58	Corn oil	1	4	1	2
59	Cresol	4	4	4	4
60	Cresol, aq	3	4	4	4
61	Cyclohexane	1	1	1	2
62	Cyclohexanol	1	1	5	4
63	Cyclohexanone	1	4	5	1
64	Decalin	1	1	1	2
65	Detergent	1	1	2	1
66	Dibutyl phtalate	1	3	3	3
67	Diesel fuel	1	2	2	1
68	Dimenthylether	1	2	2	2
69	Dimethylformamide	1	1	4	4
70	1,4-Dicxane	1	1	4	4
71	Engine oil	1	3	3	2
72	Ethanol	1	1	3	1
73	Ether	1	4	3	3
74	Ethyl acetate	1	2	5	4
75	Ethylene chloride	3	4	4	2
76	Ethylhexanol	1	4	4	4
77	Ferric salts	1	1	1	2
78	Fizzy drink	1	1	1	1
79	Formaldehyde, aq	3	1	3	2
80	Formaline	3	1	2	2
81	Formic acid	4	2	4	4
82	Fruit juice	1	1	1	1
83	Fuel	1	4	4	2
84	Fuel oil	1	3	4	1
85	Gin	1	1	2	1
86	Glycerine	1	1	1	1
87	Glycol	1	1	1	2
88	Heptane	1	1	1	2
89	Hexane	1	1	1	2
90	Honey	1	1	1	1
91	Hydrochloric acid (up to 20 %)	4	1	2	2
92	Hydrcokloride, g	4	1	2	2
93	Hydrogen preoxide, aq	2	1	3	2
94	Ink	1	1	1	1
95	Isooctane	1	4	1	1
96	Isoprapanol	1	1	3	3
97	Jelly	1	1	1	1
98	Lactic acid	2	2	3	3
99	Lanolin	1	3	2	1
100	Lemon juice	1	1	1	1
101	Linseed oil	1	1	3	1
102	Liquors	1	1	2	1
103	Magnesium salts, aq	1	1	1	1
104	Margarine	1	3	1	1
105	Mercury	1	1	3	1
106	Mercury salts, aq	1	1	3	1
107	Methanol	1	1	3	2
108	Methyl ethyl katore	1	4	3	4
109	Methylene chloride	3	4	4	4
110	Milk	1	1	1	1
111	Mustard	1	1	1	1
112	Nail varnish	1	1	4	4
113	Nail varnish remover	1	1	4	4
114	Naphthalin	1	4	2	1
115	Nickel salts, aq	1	1	1	1
116	Nitric acid (up to 25 %)	4	2	1	5
117	Nitrobenzoic acid	2	4	4	4
118	Octane	1	1	4	1
119	Oil no. 3 (ASTM D390-59)	1	3	2	1
120	Oleic acid	2	2	2	1
121	Olive oil	1	1	2	1
122	Oxalic acid, aq	2	1	3	4
123	Ozone (<0.5 ppm)	1	4	3	1
124	Palm oil	1	4	3	2
125	Paraffin	1	3	1	2
126	Paraffin ether	1	4	3	1
127	Paraffin oil	1	3	1	2
128	Paraffin oil (petroleum jelly)	1	3	2	2
129	Pectin	1	1	1	1
130	Pepper	1	1	1	1
131	Peppermint oil	1	3	2	1
132	Perfume	1	1	4	1
133	Phenol	4	4	4	4
134	Phosphone acid	4	4	1	3
135	Phosphorus pentoxide	3	1	1	2
136	Pine needle oil	1	2	2	2
137	Potassium carbonate	1	1	1	3
138	Potassium chlorate, aq	2	1	1	2
139	Potassium chloride, aq	1	1	1	1
140	Potassium chromate, aq	3	1	1	1
141	Potassium hydroxide, aq	1	1	2	1
142	Potassium Iodine, aq	1	1	1	2
143	Potassium nitrate, aq	1	1	1	2
144	Potassium permanganese, aq	3	1	1	3
145	Potassium sulfate	1	1	1	1
146	Propane, g	1	3	1	2
147	Propane, l	1	4	1	2
148	Pyridine	1	1	4	5
149	Rum	1	1	2	1
150	Sea water	1	1	1	1
151	Shampoo	1	1	1	1
152	Silicon oil	1	1	4	1
153	Silver salts, aq	1	1	1	1
154	Soapy water	1	1	1	2
155	Soda	1	1	1	1
156	Sodium bicarbonate, aq	1	1	1	1
157	Sodium bisulfite, aq	1	1	1	2
158	Sodium carbonate (borax), aq	1	1	1	1
159	Sodium carbonate, aq	1	1	1	1
160	Sodium chlorate	2	1	1	2
161	Sodium chloride, aq	1	1	1	1
162	Sodium hydroxide (caustic soda)	1	4	4	4
163	Sodium hydroxide, aq	1	1	1	2
164	Sodium hypochlorite	3	1	3	4
165	Sodium nitrate, aq	1	1	1	1
166	sodium nitrite, aq	2	1	1	1
167	Sodium perborate, aq	1	1	3	2
168	Sodium phosphate, aq	1	1	1	2
169	Sodium silicate	1	1	1	3
170	Sodium sulfate, aq	1	1	1	1
171	Sodium sulfide, aq	1	1	1	1
172	Sodium sulfite, aq	1	1	1	1
173	Sodium thiosulfate	1	1	1	2
174	Sodium thiosulfate (antichlor),aq	1	1	1	2
175	Soybean oil	1	4	2	2
176	Spruce needle oil	1	2	3	2
177	Starch	1	1	1	1
178	Stearic acid	2	4	1	1
179	Sugar, aq	1	1	1	1
180	Sulfur	1	4	4	1
181	Sulfuric acid (concentrated)	4	4	4	4
182	Sulfuric acid (up to 50 %)	4	1	3	2
183	Sulfur dioxide, g	1	1	2	3
184	Tar (hot tar)	1	3	3	4
185	Tartaric acid, aq	1	1	1	1
186	Tea	1	1	1	1
187	Tetrahydrofuran	1	3	4	4
188	Tetralin (tetrahydonaphthalene)	1	4	1	2
189	Tin dichloride	1	1	1	1
190	Toluene	1	4	4	4
191	Trichloroethylene	2	4	4	4
192	Turpentine (oil of)	1	3	3	4
193	Urea, aq	1	1	1	1
194	Vanilla	1	1	1	1
195	Vaseline	1	3	2	1
196	White spirit	1	4	3	1
197	Wine	1	1	1	1
198	Xylene	1	4	4	4

1 Resistant **2** Resistant in general **3** Fairly resistant **4** Non-resistant **5** Liable to dissolve

This table has been compiled on the basis of in-house tests, the recommendations of our raw material suppliers and customer experiences. Difference in user environments will affect the performance characteristics of the product in different ways. The ratings given are therefore approximate only.