

Nylon-11 & Nylon-12 Tubing



- Very low moisture absorption: 1.4% maximum (at 73°F)
- Will not become brittle or swell because of water
- Nylon-11, semi-rigid grade, natural color made with FDA-approved ingredients for use with food contact surfaces
- Excellent resistance to flexural fatigue, tube vibration, and movement
- Lightweight with excellent bend radii and pressure ratings
- Resists crushing, abrasion, and cracking
- Standard availability in metric sizes and colors
- Tightest tolerances available

Notes

NYLOTUBE is resistant to solvents, alkalis, oils, greases, petroleum products, fungi, and molds. It has generally good resistance to dilute mineral and organic acids, but in-plant tests are suggested.

Semi-Rigid grade, black color, is heat and light stabilized.

Nylon brittleness is usually caused by cycles of water absorption and depletion. NYLOTUBE is not dependent on moisture for flexibility, so life expectancy is greatly increased with brittleness eliminated.

Contact us for information on custom coiled nylon.

Tolerances

OD (INCH)	TOLERANCE (INCH)
1/8 - 5/32	+0.001, -0.003
3/16 - 5/8	+0.001, -0.004
3/4	+0.001, -0.005
1	+0.001, -0.006

OD (MM)	TOLERANCE (MM)
4	+0.03, -0.08
6 - 12	+0.03, -0.10

Recommended Fittings

- Newloc® push-to-connect fittings

Physical Properties**

	NYLON-11		NYLON-12	
	SEMI-RIGID GRADE	FLEXIBLE GRADE	SEMI-RIGID GRADE	FLEXIBLE GRADE
Hardness, Shore D ±5	72	63	72	63
Tensile Strength, psi	8700	6670	7790	7348
Elongation at Break, %	300	300	300	300
Brittle Temperature, °F	<-90	<-90	<-90	<-90
Max. Operating Temp., °F	212	212	212	212

**Values listed are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

Additional Services



NYLON-11 – Semi-rigid Grade

PART NO. <i>NATURAL</i>	PART NO. <i>BLACK</i> †	ID (IN.)	OD (IN.)	WALL (IN.)	STANDARD LENGTH (FT.)	WORKING PSI AT 70°F	BURST PSI AT 70°F	BEND RADIUS* (IN.)	LBS. PER 100 FT.
230 0270	230 0214	.095	1/8	.015	500	400	1200	3/8	.25
231 0266		.075	1/8	.025	500	1000	3000	1/4	.35
230 0585		.106	5/32	.025	250	730	2200	3/8	.47
231 0581	231 0525	.086	5/32	.035	250	1120	3360	1/4	.60
230 0900	230 0844	.137	3/16	.025	250	530	1600	1/2	.58
231 0896		.107	3/16	.040	250	980	2950	3/8	.84
230 1215		.190	1/4	.030	250	500	1500	1	.95
231 1211		.150	1/4	.050	250	1000	3000	1/2	1.39
230 1530		.242	5/16	.035	100	465	1400	1-1/4	1.35
230 1845		.295	3/8	.040	100	530	1600	1-1/2	1.92
231 1841		.225	3/8	.075	100	1180	3550	1	3.20

†Limited stock availability in black; lead times and minimums may apply — call for details.

*Use only as a guide.

Add length suffix to part number when ordering. Example: 100 ft. of .225" I.D. x 3/8" O.D., natural color tubing is number 231 1841-100.
BOLD indicates the critical dimension for fittings application.

NYLON-11 – Flexible Grade – Limited stock availability; lead times and minimums may apply — call for details.

PART NO. <i>BLACK</i>	PART NO. <i>BLUE</i>	PART NO. <i>ORANGE</i>	ID (IN.)	OD (IN.)	WALL (IN.)	WORKING PSI AT 70°F	BURST PSI AT 70°F	BEND RADIUS* (IN.)	LBS. PER 100 FT.
232 1158			.212	5/16	.050	315	950	7/8	1.66
	232 1487	232 1543	1/4	3/8	1/16	450	1350	1	2.69
	232 1802		3/8	1/2	1/16	330	1000	1-1/2	3.88

*Use only as a guide.

Sold by standard coil length only (100 ft.). Add length suffix to part number when ordering. Example: 100 ft. of .212" I.D. x 5/16" O.D., black color tubing is part number 232 1158-100.

BOLD indicates the critical dimension for fittings application.

NYLON-11 – Metric Sizes, Flexible Grade – Limited stock availability; lead times and minimums may apply — call for details.

PART NO. <i>NATURAL</i>	PART NO. <i>BLACK</i>	PART NO. <i>RED</i>	ID (MM)	OD (MM)	WALL (MM)	WORKING PSI AT 70°F	BURST PSI AT 70°F	BEND RADIUS* (MM)	LBS. PER 100 FT.
	235 0215	235 0299	2.5	4	.75	480	1450	8	.53
235 0901	235 0845	235 0929	4	6	1	430	1300	13	1.06
PART NO. <i>YELLOW</i>	PART NO. <i>BLUE</i>	PART NO. <i>GREEN</i>	ID (MM)	OD (MM)	WALL (MM)	WORKING PSI AT 70°F	BURST PSI AT 70°F	BEND RADIUS* (MM)	LBS. PER 100 FT.
235 0313	235 0229		2.5	4	.75	480	1450	8	.53
	235 1174	235 1202	6	8	1	315	950	33	1.49
	235 1489	235 1517	8	10	1	265	800	50	2.00
		235 1832	9	12	1.5	300	900	45	3.32

*Use only as a guide.

All metric size tubing sold by standard coil length only (100 ft.). Add length suffix to part number when ordering. Example: 100 ft. of 2.5mm I.D. x 4mm O.D., black color tubing is part number 235 0215-100.

Newloc® Push-to-Connect fittings are available from stock in metric sizes.

BOLD indicates the critical dimension for fittings application.

Turn the page for Nylon-12 items.

Nylon-12 Tubing

NYLON-12 – Semi-rigid Grade

PART NO. <i>NATURAL</i>	PART NO. <i>BLACK</i>	ID (IN.)	OD (IN.)	WALL (IN.)	STANDARD LENGTH (FT.)	WORKING PSI AT 70°F	BURST PSI AT 70°F	BEND RADIUS* (IN.)	LBS. PER 100 FT.
233 0580	233 0531	.095	1/8	.015	500	400	1200	3/8	.25
233 0265	233 0216	.075	1/8	.025	500	1000	3000	1/4	.35
233 1210	233 1161	.106	5/32	.025	250	730	2200	3/8	.47
233 0895	233 0846	.086	5/32	.035	250	1120	3360	1/4	.60
233 1840	233 1791	.137	3/16	.025	250	530	1600	1/2	.58
233 1525	233 1476	.107	3/16	.040	250	980	2950	3/8	.84
233 2470	233 2421	.190	1/4	.030	100, 250	500	1500	1	.95
233 2155	233 2106	.150	1/4	.050	250	1000	3000	1/2	1.39
233 3100	233 3051	.242	5/16	.035	100	465	1400	1-1/4	1.35
233 2785	233 2736	.182	5/16	.065	100	1165	3500	7/8	2.20
233 3730	233 3681	.295	3/8	.040	100	530	1600	1-1/2	1.92
233 3415	233 3366	.225	3/8	.075	100	1180	3550	1	3.20

*Use only as a guide.

Add length suffix to part number when ordering. Example: 250 ft. of .190" I.D. x 1/4" O.D., natural color tubing is number 233 2470-250.

BOLD indicates the critical dimension for fittings application.

NYLON-12 – Flexible Grade

PART NO. <i>NATURAL</i>	PART NO. <i>BLACK</i>	ID (IN.)	OD (IN.)	WALL (IN.)	STANDARD LENGTH (FT.)	WORKING PSI AT 70°F	BURST PSI AT 70°F	BEND RADIUS* (IN.)	LBS. PER. 100 FT.
234 0261	234 0212	.058	1/8	.034	500	830	2500	5/16	.44
234 0576	234 0527	.117	3/16	.035	250	600	1800	3/8	.74
234 0891	234 0842	.170	1/4	.040	250	450	1350	1/2	1.15
234 1521	234 1472^	1/4	3/8	1/16	100, 500	450	1350	1	2.69
234 1836	234 1787^	3/8	1/2	1/16	100, 500	330	1000	1-1/2	3.88
234 2151	234 2102^	1/2	5/8	1/16	100, 500	265	800	2-1/2	15.21
234 2466	234 2417	19/32	3/4	5/64	100	300	900	4	7.36
234 2781	234 2732	13/16	1	3/32	100	230	700	7	11.74

PART NO. <i>RED</i>	PART NO. <i>YELLOW</i>	PART NO. <i>GREEN</i>	PART NO. <i>BLUE</i>	ID (IN.)	OD (IN.)	WALL (IN.)	WORKING PSI AT 70°F	BURST PSI AT 70°F	BEND RADIUS* (IN.)	LBS. PER. 100 FT.
234 0289		234 0254	234 0219	.058	1/8	.034	830	2500	5/16	.44
234 0604	234 0625	234 0569	234 0534	.117	3/16	.035	600	1800	3/8	.74
234 0919	234 0940	234 0884	234 0849	.170	1/4	.040	450	1350	1/2	1.15
234 1549	234 1570	234 1514	234 1479	1/4	3/8	1/16	450	1350	1	2.69
234 1864	234 1885	234 1829	234 1794	3/8	1/2	1/16	330	1000	1-1/2	3.88

*Use only as a guide.

^Available in 100 ft. coils only.

Red, Yellow, Green, and Blue sold by standard coil length only (100 ft.).

Add length suffix to part number when ordering. Example: 100 ft. of .058" I.D. x 1/8" O.D., red color tubing is part number 234 0289-100.

BOLD indicates the critical dimension for fittings application.

NYLON-12 – Metric Sizes, Flexible Grade

PART NO. <i>NATURAL</i>	PART NO. <i>BLACK</i>	PART NO. <i>RED</i>	PART NO. <i>YELLOW</i>	PART NO. <i>GREEN</i>	PART NO. <i>BLUE</i>	ID (MM)	OD (MM)	WALL (MM)	WORKING PSI AT 70°F	BURST PSI AT 70°F	BEND RADIUS* (MM)	LBS. PER. 100 FT.
236 0267	236 0211	236 0295	236 0309	236 0253	236 0225	2.5	4	.75	480	1450	8	.53
236 0897	236 0841	236 0925	236 0939	236 0883	236 0855	4	6	1	430	1300	13	1.06
236 1212	236 1156	236 1240	236 1254	236 1198	236 1170	6	8	1	315	950	33	1.49
236 1527	236 1471	236 1555	236 1569	236 1513	236 1484	8	10	1	265	800	50	2.00
236 1842	236 1786	236 1877	236 1884	236 1828	236 1800	9	12	1.5	300	900	45	3.32

*Use only as a guide.

All metric size tubing sold by standard coil length only (100 ft.). Add length suffix to part number when ordering. Example: 100 ft. of 2.5mm I.D. x 4mm O.D., natural color tubing is part number 236 0267-100.

Newloc® Push-to-Connect fittings are available from stock in metric sizes.

BOLD indicates the critical dimension for fittings application.

Nylon-11 items are listed on the previous page.

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