

Excelon® Nylon Tubing



APPLICATIONS:

PNEUMATIC TUBING
WATER FILTRATION SYSTEMS
FLUID TRANSFER
VACUUM TUBING
FLUID CONVEYING SYSTEMS
AGRICULTURAL APPLICATIONS
CAR WASHES
LUBRICATION LINES
INSTRUMENTATION
PROCESS LINES

Samples available upon request.

Custom sizes, lengths, and colors available upon request.

REGULATORY COMPLIANCE: REACH, RoHS, and Prop 65 compliant

Nylon Tubing

- Excellent chemical resistance and electrical properties
- Low moisture absorption
- Strong mechanical properties

Excelon® Nylon Tubing has a high resistance to moisture absorption, corrosion, and stress cracking. The nylon material, also known as polyamide, is lightweight and has excellent bend radius, strong pressure ratings, and UV properties. Excelon® Nylon Tubing is ideal for outdoor applications, making it the preferred choice in the agricultural and automotive industries. Thermoplastic Processes' stock Nylon tubing is Nylon 12; however, it is also available in Nylon 6 and Nylon 11. Nylon 12 is the most flexible of the three materials and has a lower moisture absorption than Nylon 6. Nylon 6 offers higher abrasion resistance and tensile strength, while Nylon 11 offers better thermal resistance. Excelon® Nylon 12 tubing is stocked in 8 different colors from 3mm ID to 10mm ID. Custom sizes, lengths, and colors are available upon request in rigid formulations.

PHYSICAL PROPERTIES FOR NYLON 12

PROPERTIES	
Density	1.01
Melting Point	176°C
Tensile Stress at Break	47 MPa
Tensile Strain at Break	47%
Tensile Modulus	360 MPa
Flexural Modulus	330 MPa

Values listed are typical and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

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NYLON SIZING CHART

ITEM NO.	ID	OD	WALL	LENGTH	MINIMUM BURST PSI	MINIMUM BEND RADIUS
UN2-02-BK-100	.091	.125	.017	100' COIL	1000	.375
UN2-02-BK-250	.091	.125	.017	250' SPOOL	1000	.375
UN2-02-BK-500	.091	.125	.017	500' SPOOL	1000	.375
UN2-02-BK-1000	.091	.125	.017	1000' SPOOL	1000	.375
UN2-02-BU-100	.091	.125	.017	100' COIL	1000	.375
UN2-02-BU-250	.091	.125	.017	250' SPOOL	1000	.375
UN2-02-BU-500	.091	.125	.017	500' SPOOL	1000	.375
UN2-02-BU-1000	.091	.125	.017	1000' SPOOL	1000	.375
UN2-02-GN-100	.091	.125	.017	100' COIL	1000	.375
UN2-02-GN-250	.091	.125	.017	250' SPOOL	1000	.375
UN2-02-GN-500	.091	.125	.017	500' SPOOL	1000	.375
UN2-02-GN-1000	.091	.125	.017	1000' SPOOL	1000	.375
UN2-02-GY-100	.091	.125	.017	100' COIL	1000	.375
UN2-02-GY-250	.091	.125	.017	250' SPOOL	1000	.375
UN2-02-GY-500	.091	.125	.017	500' SPOOL	1000	.375
UN2-02-GY-1000	.091	.125	.017	1000' SPOOL	1000	.375
UN2-02-N-100	.091	.125	.017	100' COIL	1000	.375
UN2-02-N-250	.091	.125	.017	250' SPOOL	1000	.375
UN2-02-N-500	.091	.125	.017	500' SPOOL	1000	.375
UN2-02-N-1000	.091	.125	.017	1000' SPOOL	1000	.375
UN2-02-OR-100	.091	.125	.017	100' COIL	1000	.375
UN2-02-OR-250	.091	.125	.017	250' SPOOL	1000	.375
UN2-02-OR-500	.091	.125	.017	500' SPOOL	1000	.375
UN2-02-OR-1000	.091	.125	.017	1000' SPOOL	1000	.375
UN2-02-RD-100	.091	.125	.017	100' COIL	1000	.375
UN2-02-RD-250	.091	.125	.017	250' SPOOL	1000	.375
UN2-02-RD-500	.091	.125	.017	500' SPOOL	1000	.375
UN2-02-RD-1000	.091	.125	.017	1000' SPOOL	1000	.375
UN2-02-WH-100	.091	.125	.017	100' COIL	1000	.375
UN2-02-WH-250	.091	.125	.017	250' SPOOL	1000	.375
UN2-02-WH-500	.091	.125	.017	500' SPOOL	1000	.375
UN2-02-WH-1000	.091	.125	.017	1000' SPOOL	1000	.375
UN2-02-YW-100	.091	.125	.017	100' COIL	1000	.375
UN2-02-YW-250	.091	.125	.017	250' SPOOL	1000	.375
UN2-02-YW-500	.091	.125	.017	500' SPOOL	1000	.375
UN2-02-YW-1000	.091	.125	.017	1000' SPOOL	1000	.375
UN2-025-BK-100	.106	.156	.025	100' COIL	1000	.500
UN2-025-BK-500	.106	.156	.025	500' SPOOL	1000	.500
UN2-025-BK-1000	.106	.156	.025	1000' SPOOL	1000	.500
UN2-025-BU-100	.106	.156	.025	100' COIL	1000	.500
UN2-025-BU-500	.106	.156	.025	500' SPOOL	1000	.500
UN2-025-BU-1000	.106	.156	.025	1000' SPOOL	1000	.500
UN2-025-GN-100	.106	.156	.025	100' COIL	1000	.500
UN2-025-GN-500	.106	.156	.025	500' SPOOL	1000	.500
UN2-025-GN-1000	.106	.156	.025	1000' SPOOL	1000	.500

Colors: Black (BK), Blue (BU), Green (GN), Gray (GY), Natural (N), Orange (OR), Red (RD), White (WH), Yellow (YW)

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REGULATORY COMPLIANCE: REACH, RoHS, and Prop 65 compliant

NYLON SIZING CHART (CONTINUED)

ITEM NO.	ID	OD	WALL	LENGTH	MINIMUM BURST PSI	MINIMUM BEND RADIUS
UN2-025-GY-100	.106	.156	.025	100' COIL	1000	.500
UN2-025-GY-500	.106	.156	.025	500' SPOOL	1000	.500
UN2-025-GY-1000	.106	.156	.025	1000' SPOOL	1000	.500
UN2-025-N-100	.106	.156	.025	100' COIL	1000	.500
UN2-025-N-500	.106	.156	.025	500' SPOOL	1000	.500
UN2-025-N-1000	.106	.156	.025	1000' SPOOL	1000	.500
UN2-025-OR-100	.106	.156	.025	100' COIL	1000	.500
UN2-025-OR-500	.106	.156	.025	500' SPOOL	1000	.500
UN2-025-OR-1000	.106	.156	.025	1000' SPOOL	1000	.500
UN2-025-RD-100	.106	.156	.025	100' COIL	1000	.500
UN2-025-RD-500	.106	.156	.025	500' SPOOL	1000	.500
UN2-025-RD-1000	.106	.156	.025	1000' SPOOL	1000	.500
UN2-025-WH-100	.106	.156	.025	100' COIL	1000	.500
UN2-025-WH-500	.106	.156	.025	500' SPOOL	1000	.500
UN2-025-WH-1000	.106	.156	.025	1000' SPOOL	1000	.500
UN2-025-YW-100	.106	.156	.025	100' COIL	1000	.500
UN2-025-YW-500	.106	.156	.025	500' SPOOL	1000	.500
UN2-025-YW-1000	.106	.156	.025	1000' SPOOL	1000	.500
UN2-03-BK-100	.140	.188	.024	100' COIL	1000	.625
UN2-03-BK-500	.140	.188	.024	500' SPOOL	1000	.625
UN2-03-BK-1000	.140	.188	.024	1000' SPOOL	1000	.625
UN2-03-BU-100	.140	.188	.024	100' COIL	1000	.625
UN2-03-BU-500	.140	.188	.024	500' SPOOL	1000	.625
UN2-03-BU-1000	.140	.188	.024	1000' SPOOL	1000	.625
UN2-03-GN-100	.140	.188	.024	100' COIL	1000	.625
UN2-03-GN-500	.140	.188	.024	500' SPOOL	1000	.625
UN2-03-GN-1000	.140	.188	.024	1000' SPOOL	1000	.625
UN2-03-GY-100	.140	.188	.024	100' COIL	1000	.625
UN2-03-GY-500	.140	.188	.024	500' SPOOL	1000	.625
UN2-03-GY-1000	.140	.188	.024	1000' SPOOL	1000	.625
UN2-03-N-100	.140	.188	.024	100' COIL	1000	.625
UN2-03-N-500	.140	.188	.024	500' SPOOL	1000	.625
UN2-03-N-1000	.140	.188	.024	1000' SPOOL	1000	.625
UN2-03-OR-100	.140	.188	.024	100' COIL	1000	.625
UN2-03-OR-500	.140	.188	.024	500' SPOOL	1000	.625
UN2-03-OR-1000	.140	.188	.024	1000' SPOOL	1000	.625
UN2-03-RD-100	.140	.188	.024	100' COIL	1000	.625
UN2-03-RD-500	.140	.188	.024	500' SPOOL	1000	.625
UN2-03-RD-1000	.140	.188	.024	1000' SPOOL	1000	.625
UN2-03-WH-100	.140	.188	.024	100' COIL	1000	.625
UN2-03-WH-500	.140	.188	.024	500' SPOOL	1000	.625
UN2-03-WH-1000	.140	.188	.024	1000' SPOOL	1000	.625
UN2-03-YW-100	.140	.188	.024	100' COIL	1000	.625
UN2-03-YW-500	.140	.188	.024	500' SPOOL	1000	.625
UN2-03-YW-1000	.140	.188	.024	1000' SPOOL	1000	.625

Colors: Black (BK), Blue (BU), Green (GN), Gray (GY), Natural (N), Orange (OR), Red (RD), White (WH), Yellow (YW)

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REGULATORY COMPLIANCE: REACH, RoHS, and Prop 65 compliant

NYLON SIZING CHART (CONTINUED)

ITEM NO.	ID	OD	WALL	LENGTH	MINIMUM BURST PSI	MINIMUM BEND RADIUS
UN2-04-BK-100	.180	.250	.035	100' COIL	1000	1
UN2-04-BK-500	.180	.250	.035	500' SPOOL	1000	1
UN2-04-BK-1000	.180	.250	.035	1000' SPOOL	1000	1
UN2-04-BU-100	.180	.250	.035	100' COIL	1000	1
UN2-04-BU-500	.180	.250	.035	500' SPOOL	1000	1
UN2-04-BU-1000	.180	.250	.035	1000' SPOOL	1000	1
UN2-04-GN-100	.180	.250	.035	100' COIL	1000	1
UN2-04-GN-500	.180	.250	.035	500' SPOOL	1000	1
UN2-04-GN-1000	.180	.250	.035	1000' SPOOL	1000	1
UN2-04-GY-100	.180	.250	.035	100' COIL	1000	1
UN2-04-GY-500	.180	.250	.035	500' SPOOL	1000	1
UN2-04-GY-1000	.180	.250	.035	1000' SPOOL	1000	1
UN2-04-N-100	.180	.250	.035	100' COIL	1000	1
UN2-04-N-500	.180	.250	.035	500' SPOOL	1000	1
UN2-04-N-1000	.180	.250	.035	1000' SPOOL	1000	1
UN2-04-OR-100	.180	.250	.035	100' COIL	1000	1
UN2-04-OR-500	.180	.250	.035	500' SPOOL	1000	1
UN2-04-OR-1000	.180	.250	.035	1000' SPOOL	1000	1
UN2-04-RD-100	.180	.250	.035	100' COIL	1000	1
UN2-04-RD-500	.180	.250	.035	500' SPOOL	1000	1
UN2-04-RD-1000	.180	.250	.035	1000' SPOOL	1000	1
UN2-04-WH-100	.180	.250	.035	100' COIL	1000	1
UN2-04-WH-500	.180	.250	.035	500' SPOOL	1000	1
UN2-04-WH-1000	.180	.250	.035	1000' SPOOL	1000	1
UN2-04-YW-100	.180	.250	.035	100' COIL	1000	1
UN2-04-YW-500	.180	.250	.035	500' SPOOL	1000	1
UN2-04-YW-1000	.180	.250	.035	1000' SPOOL	1000	1
UN2-05-BK-100	.232	.312	.040	100' COIL	1000	1.250
UN2-05-BK-500	.232	.312	.040	500' SPOOL	1000	1.250
UN2-05-BU-100	.232	.312	.040	100' COIL	1000	1.250
UN2-05-BU-500	.232	.312	.040	500' SPOOL	1000	1.250
UN2-05-GN-100	.232	.312	.040	100' COIL	1000	1.250
UN2-05-GN-500	.232	.312	.040	500' SPOOL	1000	1.250
UN2-05-GY-100	.232	.312	.040	100' COIL	1000	1.250
UN2-05-GY-500	.232	.312	.040	500' SPOOL	1000	1.250
UN2-05-N-100	.232	.312	.040	100' COIL	1000	1.250
UN2-05-N-500	.232	.312	.040	500' SPOOL	1000	1.250
UN2-05-OR-100	.232	.312	.040	100' COIL	1000	1.250
UN2-05-OR-500	.232	.312	.040	500' SPOOL	1000	1.250
UN2-05-RD-100	.232	.312	.040	100' COIL	1000	1.250
UN2-05-RD-500	.232	.312	.040	500' SPOOL	1000	1.250
UN2-05-WH-100	.232	.312	.040	100' COIL	1000	1.250
UN2-05-WH-500	.232	.312	.040	500' SPOOL	1000	1.250
UN2-05-YW-100	.232	.312	.040	100' COIL	1000	1.250
UN2-05-YW-500	.232	.312	.040	500' SPOOL	1000	1.250

Colors: Black (BK), Blue (BU), Green (GN), Gray (GY), Natural (N), Orange (OR), Red (RD), White (WH), Yellow (YW)

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NYLON SIZING CHART (CONTINUED)

ITEM NO.	ID	OD	WALL	LENGTH	MINIMUM BURST PSI	MINIMUM BEND RADIUS
UN2-06-BK-100	.275	.375	.050	100' COIL	1000	1.500
UN2-06-BK-500	.275	.375	.050	500' SPOOL	1000	1.500
UN2-06-BK-1000	.275	.375	.050	1000' SPOOL	1000	1.500
UN2-06-BU-100	.275	.375	.050	100' COIL	1000	1.500
UN2-06-BU-500	.275	.375	.050	500' SPOOL	1000	1.500
UN2-06-BU-1000	.275	.375	.050	1000' SPOOL	1000	1.500
UN2-06-GN-100	.275	.375	.050	100' COIL	1000	1.500
UN2-06-GN-500	.275	.375	.050	500' SPOOL	1000	1.500
UN2-06-GN-1000	.275	.375	.050	1000' SPOOL	1000	1.500
UN2-06-GY-100	.275	.375	.050	100' COIL	1000	1.500
UN2-06-GY-500	.275	.375	.050	500' SPOOL	1000	1.500
UN2-06-GY-1000	.275	.375	.050	1000' SPOOL	1000	1.500
UN2-06-N-100	.275	.375	.050	100' COIL	1000	1.500
UN2-06-N-500	.275	.375	.050	500' SPOOL	1000	1.500
UN2-06-N-1000	.275	.375	.050	1000' SPOOL	1000	1.500
UN2-06-OR-100	.275	.375	.050	100' COIL	1000	1.500
UN2-06-OR-500	.275	.375	.050	500' SPOOL	1000	1.500
UN2-06-OR-1000	.275	.375	.050	1000' SPOOL	1000	1.500
UN2-06-RD-100	.275	.375	.050	100' COIL	1000	1.500
UN2-06-RD-500	.275	.375	.050	500' SPOOL	1000	1.500
UN2-06-RD-1000	.275	.375	.050	1000' SPOOL	1000	1.500
UN2-06-WH-100	.275	.375	.050	100' COIL	1000	1.500
UN2-06-WH-500	.275	.375	.050	500' SPOOL	1000	1.500
UN2-06-WH-1000	.275	.375	.050	1000' SPOOL	1000	1.500
UN2-06-YW-100	.275	.375	.050	100' COIL	1000	1.500
UN2-06-YW-500	.275	.375	.050	500' SPOOL	1000	1.500
UN2-06-YW-1000	.275	.375	.050	1000' SPOOL	1000	1.500
UN2-08-BK-100	.375	.500	.062	100' COIL	1000	2
UN2-08-BK-500	.375	.500	.062	500' SPOOL	1000	2
UN2-08-BU-100	.375	.500	.062	100' COIL	1000	2
UN2-08-BU-500	.375	.500	.062	500' SPOOL	1000	2
UN2-08-GN-100	.375	.500	.062	100' COIL	1000	2
UN2-08-GN-500	.375	.500	.062	500' SPOOL	1000	2
UN2-08-GY-100	.375	.500	.062	100' COIL	1000	2
UN2-08-GY-500	.375	.500	.062	500' SPOOL	1000	2
UN2-08-N-100	.375	.500	.062	100' COIL	1000	2
UN2-08-N-500	.375	.500	.062	500' SPOOL	1000	2
UN2-08-OR-100	.375	.500	.062	100' COIL	1000	2
UN2-08-OR-500	.375	.500	.062	500' SPOOL	1000	2
UN2-08-RD-100	.375	.500	.062	100' COIL	1000	2
UN2-08-RD-500	.375	.500	.062	500' SPOOL	1000	2
UN2-08-WH-100	.375	.500	.062	100' COIL	1000	2
UN2-08-WH-500	.375	.500	.062	500' SPOOL	1000	2
UN2-08-YW-100	.375	.500	.062	100' COIL	1000	2
UN2-08-YW-500	.375	.500	.062	500' SPOOL	1000	2

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NYLON METRIC SIZING CHART

ITEM NO.	ID (MM)	OD (MM)	WALL (MM)	LENGTH (M)	MINIMUM BURST PSI	MINIMUM BEND RADIUS
UNM2-5X1-BK-50	3	5	1	50	1600	16
UNM2-6X1-BK-50	4	5	1	50	1200	21
UNM2-8X1-BK-50	6	8	1	50	800	28
UNM2-10X1-BK-50	8	10	1	50	600	35
UNM2-12X1-BK-50	10	12	1	50	480	45
UNM2-12X1.5-BK-50	9	12	1.5	50	800	45
UNM2-14X2-BK-50	10	14	2	50	950	50
UNM2-5X1-BU-50	3	5	1	50	1600	16
UNM2-6X1-BU-50	4	5	1	50	1200	21
UNM2-8X1-BU-50	6	8	1	50	800	28
UNM2-10X1-BU-50	8	10	1	50	600	35
UNM2-12X1-BU-50	10	12	1	50	480	45
UNM2-12X1.5-BU-50	9	12	1.5	50	800	45
UNM2-14X2-BU-50	10	14	2	50	950	50
UNM2-5X1-GN-50	3	5	1	50	1600	16
UNM2-6X1-GN-50	4	5	1	50	1200	21
UNM2-8X1-GN-50	6	8	1	50	800	28
UNM2-10X1-GN-50	8	10	1	50	600	35
UNM2-12X1-GN-50	10	12	1	50	480	45
UNM2-12X1.5-GN-50	9	12	1.5	50	800	45
UNM2-14X2-GN-50	10	14	2	50	950	50
UNM2-5X1-GY-50	3	5	1	50	1600	16
UNM2-6X1-GY-50	4	5	1	50	1200	21
UNM2-8X1-GY-50	6	8	1	50	800	28
UNM2-10X1-GY-50	8	10	1	50	600	35
UNM2-12X1-GY-50	10	12	1	50	480	45
UNM2-12X1.5-GY-50	9	12	1.5	50	800	45
UNM2-14X2-GY-50	10	14	2	50	950	50
UNM2-5X1-N-50	3	5	1	50	1600	16
UNM2-6X1-N-50	4	5	1	50	1200	21
UNM2-8X1-N-50	6	8	1	50	800	28
UNM2-10X1-N-50	8	10	1	50	600	35
UNM2-12X1-N-50	10	12	1	50	480	45
UNM2-12X1.5-N-50	9	12	1.5	50	800	45
UNM2-14X2-N-50	10	14	2	50	950	50
UNM2-5X1-OR-50	3	5	1	50	1600	16
UNM2-6X1-OR-50	4	5	1	50	1200	21
UNM2-8X1-OR-50	6	8	1	50	800	28
UNM2-10X1-OR-50	8	10	1	50	600	35
UNM2-12X1-OR-50	10	12	1	50	480	45
UNM2-12X1.5-OR-50	9	12	1.5	50	800	45
UNM2-14X2-OR-50	10	14	2	50	950	50
UNM2-5X1-RD-50	3	5	1	50	1600	16
UNM2-6X1-RD-50	4	5	1	50	1200	21
UNM2-8X1-RD-50	6	8	1	50	800	28

Colors: Black (BK), Blue (BU), Green (GN), Gray (GY), Natural (N), Orange (OR), Red (RD), White (WH), Yellow (YW)

Values listed are typical and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

Excelon® Nylon Tubing



APPLICATIONS:
 PNEUMATIC TUBING
 WATER FILTRATION SYSTEMS
 FLUID TRANSFER
 VACUUM TUBING
 FLUID CONVEYING SYSTEMS
 AGRICULTURAL APPLICATIONS
 CAR WASHES
 LUBRICATION LINES
 INSTRUMENTATION
 PROCESS LINES

Samples available upon request.

Custom sizes, lengths, and colors available upon request.

REGULATORY COMPLIANCE: REACH, RoHS, and Prop 65 compliant

NYLON METRIC SIZING CHART (CONTINUED)

ITEM NO.	ID (MM)	OD (MM)	WALL (MM)	LENGTH (M)	MINIMUM BURST PSI	MINIMUM BEND RADIUS
UNM2-10X1-RD-50	8	10	1	50	600	35
UNM2-12X1-RD-50	10	12	1	50	480	45
UNM2-12X1.5-RD-50	9	12	1	50	800	45
UNM2-14X2-RD-50	10	14	1	50	950	50
UNM2-5X1-WH-50	3	5	1	50	1600	16
UNM2-6X1-WH-50	4	5	1	50	1200	21
UNM2-8X1-WH-50	6	8	1	50	800	28
UNM2-10X1-WH-50	8	10	1	50	600	35
UNM2-12X1-WH-50	10	12	1	50	480	45
UNM2-12X1.5-WH-50	9	12	1.5	50	800	45
UNM2-14X2-WH-50	10	14	2	50	950	50
UNM2-5X1-YW-50	3	5	1	50	1600	16
UNM2-6X1-YW-50	4	5	1	50	1200	21
UNM2-8X1-YW-50	6	8	1	50	800	28
UNM2-10X1-YW-50	8	10	1	50	600	35
UNM2-12X1-YW-50	10	12	1	50	480	45
UNM2-12X1.5-YW-50	9	12	1.5	50	800	45
UNM2-14X2-YW-50	10	14	2	50	950	50

Colors: Black (BK), Blue (BU), Green (GN), Gray (GY), Natural (N), Orange (OR), Red (RD), White (WH), Yellow (YW)

Values listed are typical and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.



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