# **Nylon**

#### **Specifications**

**Temperature Range** -60°F to +200°F

**Vacuum Rating** To 28" Hg

**Diameter Tolerance** <1/2"± .004" >1/2"± .005"

Hardness 78 Rockwell R

**Tube Markings** FW Specifications

**Working Pressure** 4:1 Safety Factor

**UV Stabilized** 

Yes **Resin Compliance** Meets UL94HB **Testing Requirements** 

**Suggested Fittings** Push-In, Compression

ylon tubing (also referred to as polyamide) can withstand higher temperatures, making it an ideal choice for a wide variety of applications. When compared to other Nylon resins, Freelin-Wade's tubing allows for a lighter weight wall, greater flexibility and smaller bend radius. It is also more corrosion resistant than other types of Nylon tubing because of its resistance moisture absorbtion. It's heat and UV stabilization makes it resistant to stresscracking, so it works well in sunny areas. It is chemical resistant which makes it a good choice in areas where exposure to certain chemicals is a possibility.

Freelin-Wade manufactures nylon tubing from a variety of resins and there are any number of variations possible. We are happy to match any color you need, configure a coil, bond two tubes, print and cut to length. Freelin-Wade can make a nylon tube to meet your needs.

### **Features**

- Strong, lightweight and flexible.
- Dimensionally stable.
- · Heat and light stabilized.
- Resistant to corrosion and stress-cracking.



### **Nylon Colors**

ny of our nylon tubing products listed on page 15 are available in the colors shown below. If not shown as a standard item, please allow 3 weeks to fulfill your order.

















## Nylon

Part Number & Packaging	OD	ID	Wall	Standard Colors		Pressure	lbs./	Bend	Fitting
Color Code Unit Size  1J-247- — 100' Bag						150°F/65°C	100'	Radius	
1A-247- — 2500' Reel	1/8"	.079"	.023"	00	420 PSI	250 PSI	.35	3/8"	PI, C
1J-200- — 100' Bag									
1C-200- — 500' Reel	1/8"	.093"	.016"	000000000000000000000000000000000000000	270 PSI	160 PSI	.25	1/2"	PI, C
1B-200- — 1000' Reel	., -			30000	_,			.,_	, •
1A-200- — 2500' Reel									
1J-201- — 100' Bag 1C-201- — 500' Reel									
1B-201- — 1000' Reel	5/32"	.106"	.025"	00 03 05 06 07 08 09 10 12	350 PSI	210 PSI	.51	1/2"	PI, C
1A-201- — 2500' Reel									
1J-202- — 100' Bag									
1B-202- — 500' Reel	3/16"	.138"	.025"	000000	260 PSI	160 PSI	.55	5/8"	PI, C
1A-202- — 2000' Reel									
1J-214- — 100' Bag	1/4"	.125"	.062"	00	590 PSI	350 PSI	1.77	3/8"	PI, C
1A-214- — 1000' Reel	., .	25					,	5,5	, C
1J-203- — 100' Bag									
1B-203- — 500' Reel 1A-203- — 1000' Reel	1/4"	.170"	.040"	00 03 05 06 07 08 09 10	330 PSI	200 PSI	1.27	3/4"	PI, C
1J-204- — 100' Bag									
1B-204- — 500' Reel	1/4"	.180"	.035"	0) 05 06 07 08 09 10	290 PSI	170 PSI	1.13	1"	PI, C
1A-204- — 1000' Reel	., .				_, _,				, -
1J-205- — 100' Bag	5 /1 /II	00011	0.40"	00000000	0.40.001	1 (O DCI	1 / /	1.1./0.1	DI C
1A-205- — 500' Reel	5/16"	.232"	.040"		240 PSI	140 PSI	1.64	1-1/2"	PI, C
1J-206- — 100' Bag	3/8"	.275"	.050"	0 05 06 07 08 09 10	250 PSI	150 PSI	2.45	1-1/2"	PI, C
1A-206 500' Reel	5,5	, .		<b>466646</b>	200.0.		2	, _	, C
1J-207- — 100' Bag	1 (011	275"	0.4011		0.40.001	1 (O DCI	4.10	0.1/4	DI C
1A-207- — 250' Reel	1/2"	.375"	.062"	000000000000000000000000000000000000000	240 PSI	140 PSI	4.12	2-1/4"	PI, C
1J-213 50' Bag									
1AA-213- — 250' Reel	5/8"	1/2"	.062"	00	170 PSI	100 PSI	5.30	3-1/4"	PI, C
								Metric	Sizes
Part Number & Packaging Color Code Unit Size	OD mm	ID	Wall	Standard Colors		Pressure	lbs./ 100'	Bend Radius	Fitting
1J-246 100' Bag	mm	mm	mm		/5 F/25 C	150°F/65°C	100	Kaalus	
1C-246 500' Reel				40°					
1B-2461000' Reel	3	1.8	.6	(10)	410 PSI	240 PSI	.33	6.3 mm	PI, C
1A-246 2500' Reel									
1J-201 100' Bag									
1C-201 500' Reel	4	2.7	.65	0) 03 05 06 07 08 02 10 12	350 PSI	210 PSI	.51	12.7 mm	PI, C
1B-2011000' Reel									,
1A-201 2500' Reel 1J-241 100' Bag									
1J-241 100' Bag	5	3	1	00000000000	420 PSI	250 PSI	.94	9.5 mm	PI, C
1J-242 100' Bag									
1B-242 500' Reel	6	4	1	0005060708090	340 PSI	200 PSI	1.17	1 <i>7</i> mm	PI, C
1A-242 1000' Reel									•
1J-243 100' Bag	8	6	1	0000000	250 001	150 PSI	1.64	38 mm	PI, C
1A-243 500' Reel	0	0	1		250 PSI	130 731	1.04	30 mm	FI, C
1J-244 100' Bag	10	8	1	0 03 (10)	190 PSI	110 PSI	2.11	51 mm	PI, C
1A-244 500' Reel	. ,		•	<b>→</b> • • • • • • • • • • • • • • • • • • •			_,,	- /	, •
1J-245 100' Bag	10	10	1	<b>A</b>	150.00	00 001	2.55	7/	DI C
1A-245 250' Reel 1AA-245 500' Reel	12	10	1	00	150 PSI	90 PSI	2.55	76 mm	PI, C
				Cailing a Calage a Cutting B	on dina	Duinding	Doub		Si-co
Variations Available	e:			Coiling • Colors • Cutting • B	onding •	Printing	Pack	aging •	Sizes

# Nylon: D.O.T., High Pressure, & Super Soft

#### **Specifications**

Temperature Range HP: -60°F to +200°F SS: -40°F to +180°F

DOT: -60°F to +200°F

**Vacuum Rating** All: To 28" Hg.

Diameter Tolerances HP: < OD .5": ±.004" > OD .5": ±.005"

SS: ±.004" DOT: ½" - ¼": ±.003" 5/16": ±.004"

Hardness

HP: 108 Rockwell R SS: 57 Shore D DOT: 78 Rockwell R

**Tube Markings**HP & SS: FW Specs
DOT: DOT Specs

Working Pressure 4:1 Safety Factor

UV Stabilized All: Yes

Resin Compliance Meets UL94HB Testing Requirements

Suggested Fittings Push-In, Compression

### D.O.T. Nylon 11

O.T. tubing is made using our standard Nylon. Type "A" Air Brake tubing is ideal for use on vehicles for instrumentation and pneumatic accessories connected to the air brake system. Type "A" Air Brake tubing is non-reinforced and meets SAE J844 specifications and is available in a variety of colors.



## **High Pressure Nylon 11**

reelin-Wade's High Pressure Nylon tubing is made from a semi-rigid compound that has outstanding tensile strength and chemical resistance, making it the ideal choice for chemical and oil processing lines, tool lubricating systems and other applications that require a high quality Nylon material with much higher burst ratings.

## **Super Soft Nylon 11**

reelin-Wade's Super Soft Nylon 11 tubing is formulated with a special compound to significantly increase flexibility while retaining the outstanding qualities of our standard Nylon tubing. This advantage makes our Super Soft Nylon 11 the ideal choice where media and environmental conditions make polyurethane impractical.

- More flexible than standard Nylon tubing
- Heat and light stabilized.



#### D.O.T. Tubing

Standard Colors	Burst Pressure 75°F/25°C	lbs./ 100'	Bend Radius	Fitting
	1000 BCI	0.4	0./0"	DI C
0)05070809	1000 PSI	.34	3/8"	PI, C
			4 (01)	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1200 PSI	.5/	1/2"	PI, C
01 05 06 08 09	1200 PSI	.77	3/4"	PI, C
000000000000000000000000000000000000000	1200 PSI	1.21	1"	PI, C
99999				•
0000000	1000 PSI	1.57	1-1/4"	PI, C
Coiling • Colors • Cutti	ng • Bonding • Pr	inting •	Packaging	• Sizes
	0 65 67 68 69 0 65 68 69 0 65 68 69 0 65 69 70 86 69	1000 PSI  1000 PSI  1200 PSI  1200 PSI  1200 PSI  1200 PSI  1200 PSI  1200 PSI	1000 PSI .34  1000 PSI .34  1000 PSI .57  1000 PSI .57  1000 PSI .57  1200 PSI .77  1200 PSI .77  1200 PSI .77  1200 PSI .77  1200 PSI .57	1000 PSI .34 3/8"  1000 PSI .34 3/8"  1200 PSI .57 1/2"  1200 PSI .77 3/4"  1200 PSI .77 3/4"

## **High Pressure Nylon 11**

Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard Colors	Working Pressure 75°F/25°C	lbs./ 100'	Bend Radius	Fitting
1J-280- — 100' Bag 1B-280 500' Reel 1A-2802500' Reel	1/8"	.073"	.026"	( <b>10</b> )	800 PSI	.39	5/16"	PI, C
1J-281 100' Bag 1B-281 500' Reel 1A-2812000' Reel	3/16"	.109"	.039"	(10)	800 PSI	.88	7/16"	PI, C
1J-282 100' Bag 1B-282 500' Reel 1A-2821000' Reel	1/4"	.150"	.050"	<b>o</b> ®	800 PSI	1.51	9/16"	PI, C
1J-283 100' Bag 1A-283 500' Reel	3/8"	.225"	.075"	<u>(0)</u>	800 PSI	3.39	1"	PI, C
1A-284 250' Reel 1AA-284 500' Reel	1/2"	.350"	.075"	10	530 PSI	4.81	2"	PI, C
Variations Available				Coiling • Colors • Co	utting • Printing	• Pack	aging •	Sizes



			-
Super	C - LT	NI.	l '

**USA & International: 503-434-5561** 

Super Soft Nylon			26.			oopo.		/	
Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard Colors		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-260 100' Bag 1C-260 500' Reel 1B-2601000' Reel 1A-2602500' Reel	1/8"	.093"	.016"	<b>0</b> 0	200 PSI	120 PSI	.25	9/16"	PI, C
1J-261 100' Bag 1C-261 500' Reel 1B-261 1000' Reel 1A-261 2500' Reel	5/32"	.106"	.025"	<b>o</b> :	220 PSI	130 PSI	.45	9/16"	PI, C
1J-264 100' Bag 1B-264 500' Reel 1A-2641000' Reel	1/4"	.180"	.035"	00	180 PSI	110 PSI	1.04	1"	PI, C
1J-265- — 100' Bag 1A-265- — 500' Reel	5/16"	.232"	.040"	<b>o</b> •	170 PSI	100 PSI	1.52	1-1/4"	PI, C
1J-266- — 100' Bag 1A-266- — 500' Reel	3/8"	.275"	.050"	00	160 PSI	90 PSI	2.26	1-5/8"	PI, C
1J-267 100' Bag 1AA-267 500' Reel	1/2"	3/8"	.062"	00	140 PSI	80 PSI	3.80	2-1/2"	•
Part Number & Packaging	OD	ID	Wall	0. 1.101	Working	Pressure	lbs./	D	: Sizes

Part Number & Packaging Color Code Unit Size		ID mm	Wall mm	Standard Colors	Working 75°F/25°C	Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J -271 100' Ba	g								
1B -271 500' Re	el 5	3	1	<u>10</u>	310 PSI	180 PSI	.95	12.7	PI, C
1A-271- — 1000' Re	el								
1J-272 100' Ba	9								
1B-272 500' Re	el 6	4	1	<b>0</b> 0	240 PSI	140 PSI	1.10	19.0	PI, C
1A-272 1000' Re	el								
1J-273 100' Ba	g 8	6	1	000	160 PSI	100 PSI	1.70	23.8	PI, C
1A-273 500' Re	el	Ŭ			100101	100101	1.70	20.0	11, C
1J-274 100' Ba	g 10	8	1	00(10)	120 PSI	70 PSI	2.20	28.6	PI, C
1A-274 500' Re	el				120101	, 0 . 0.	2.20	20.0	, c
1J-275 100' Ba	g 12	10	1	00(0)	90 PSI	50 PSI	2.80	38.0	PI, C
1AA-275 <u>-</u> 500' Re	el	70	'	<b>3</b> 0	, 5 1 01	55701	2.50	00.0	, C
Variations Availab	ole:			Coiling • Colors • Cutting •	Bondina • I	Printina •	Packe	aaina •	Sizes

# **Nylon Coiled Hose**

reelin-Wade's Nylon coiled tubing is tough and abrasion resistant. The hoses are fitted with durable brass male swivel compression fittings and spring guards that are preassembled on each hose end. Bulk hoses are offered in 100 foot lengths for users wanting to assemble their own hoses.

Our Nylon Twin Hose (pictured below) has all of the same features but with the added benefit of two hoses bonded together. An intermittent bond allows for easy fitting installation and eliminates taping or tie wrapping hoses together in twin line applications. One line is yellow and the second is a natural translucent color which allows for visual flow verification. Contact Customer Service for more information.

The difference between the Self-Storing Hose and the Mini Coils is that the Self-Storing Hose includes fittings.



#### **Features**

- Economical and lightweight.
- Self retracting.
- Resists oil, grease and corrosion.
- Pre-sealed threads on swivel fittings.

#### **Specifications**

Temperature Range -60°F to +180°F

Vacuum Rating
To 28" Hg.

Diameter Tolerances ±.004"



**Nylon Self-Storing Hose** 

Part Number & Color Code	OD	ID	Working 75°F/25°C	Pressure 150°F/65°C	Material Length	Working Length	Retracted Length	Coil OD	MPT Fitting	Approx. Weight
N14-12B					12'	9'	5-1/4"		1/4"	.375 lbs.
N14-25B	.309"	1/4"	105 DCI	110 PSI	25'	19'	10"	2.1./20	1/4"	.62 lbs.
N14-50B	.309	1/4	185 PSI		50'	37.5'	19-3/4"	3-1/2"	1/4"	.937 lbs.
N14-100					100'	75'	39-1/2"		none	1.37 lbs.
N38-12B					12'	9'	4-1/2"		3/8"	.687 lbs
N38-25B	.470"	0 /0"	165 PSI	100 PSI	25'	19'	9"	5-5/8"	3/8"	1.62 lbs.
N38-50B	.4/0"	3/8"	100 101	100 PSI	50'	37.5'	18-1/4"	3-3/6	3/8"	1.75 lbs.
N38-100					100'	75'	36-3/4"		none	4 lbs.
N12-12B					12'	9'	4-1/4"		1/2"	.375 lbs.
N12-25B	40.5"	1/2"	170 PSI	110 PSI	25'	19'	8-1/2"	9"	1/2"	.562 lbs.
N12-50B	.625"	1/2	1/0 /31	110 P31	50'	37.5'	15-1/2"	7	1/2"	.937 lbs.
N12-100					100'	75'	31-1/2"		none	1.37 lbs
Variation A	vailable:								P	ackaging

## **Nylon Mini Coils**

#### **Specifications**

Temperature Range -60°F to +180°F

Vacuum Rating
To 28" Hg.

Tube Diameter
Tolerances

**Tube Markings** FW Specifications

Standard Tail Lengths 2" on each end reelin-Wade's Nylon Mini Coils have two inch integral pigtails on each end. This allows for instant push-to-connect or standard compression fittings to be used. These small diameter coils are flexible and easy to handle. They are ideal for small pneumatic tools and robotic applications. Our Mini Coils are made from tough abrasion resistant Nylon.

Variations are easy. If you don't see the color or length that you want, just ask us. We can configure Nylon Mini Coils to perfectly match your requirements.



#### **Nylon Mini Coils**

Part Number & Color Code	OD	ID	Standard Colors	Standard Colors Working Pressure 75°F/25°C 150°F/65°C		Material Length	Working Length	Retracted Length	Coil OD
N1063						4.4'	3-1/2'	3"	
N1066	5/32"	.106"	01 03 05 06 07 08 09 10	298 PSI	179 PSI	8.8'	7'	6"	1.312"
N10612	3/32	.100		290 P31	1/9 [3]	17.5'	14'	12"	1.312
N10624						35'	28'	24"	
N1706				280 PSI	1 <i>7</i> 0 PSI	5'	4'	6"	
N1709						6.9'	5-1/2'	9"	
N17012	1/4"	.170"	<b>01</b> 03 05 06 07 08 09 10			9.4'	<i>7</i> -1/2'	12"	1.750"
N17024						19.4'	15-1/2'	25"	
N17036						28'	22-1/2'	36"	

Variations Available:

Colors • Printing • Packaging • Sizes

## **Coil Terminology**

oil Diameter plays a very significant role in retractability.
The smaller and tighter the coil diameter, the snappier and more retractable the coil becomes.

**Working Length** is based on how far a coil can be stretched and used comfortably. Tail length is factored into working length.

**Retracted Length** is the length of the coiled section of the body of the coil. It does not include the length of tails.

**Tails (or Pigtails)** make it easier to use a coil. Our standard tail lengths are 8" and 16". Coils with longer or shorter tails are available.



