

# 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

**N**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 absorption. Its heat and UV stabilization makes it resistant to stress-cracking, 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

**A**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 & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C	150°F/65°C			
1J-247- 1A-247-	100' Bag 2500' Reel	1/8"	.079"	.023"	01 10	420 PSI	250 PSI	.35	3/8"	PI, C
1J-200- 1C-200- 1B-200- 1A-200-	100' Bag 500' Reel 1000' Reel 2500' Reel	1/8"	.093"	.016"	01 05 06 07 08 10	270 PSI	160 PSI	.25	1/2"	PI, C
1J-201- 1C-201- 1B-201- 1A-201-	100' Bag 500' Reel 1000' Reel 2500' Reel	5/32"	.106"	.025"	01 03 05 06 07 08 09 10 12	350 PSI	210 PSI	.51	1/2"	PI, C
1J-202- 1B-202- 1A-202-	100' Bag 500' Reel 2000' Reel	3/16"	.138"	.025"	01 05 06 07 10	260 PSI	160 PSI	.55	5/8"	PI, C
1J-214- 1A-214-	100' Bag 1000' Reel	1/4"	.125"	.062"	01 10	590 PSI	350 PSI	1.77	3/8"	PI, C
1J-203- 1B-203- 1A-203-	100' Bag 500' Reel 1000' Reel	1/4"	.170"	.040"	01 03 05 06 07 08 09 10	330 PSI	200 PSI	1.27	3/4"	PI, C
1J-204- 1B-204- 1A-204-	100' Bag 500' Reel 1000' Reel	1/4"	.180"	.035"	01 05 06 07 08 09 10	290 PSI	170 PSI	1.13	1"	PI, C
1J-205- 1A-205-	100' Bag 500' Reel	5/16"	.232"	.040"	01 05 06 07 08 10	240 PSI	140 PSI	1.64	1-1/2"	PI, C
1J-206- 1A-206-	100' Bag 500' Reel	3/8"	.275"	.050"	01 05 06 07 08 09 10	250 PSI	150 PSI	2.45	1-1/2"	PI, C
1J-207- 1A-207- 1AA-207-	100' Bag 250' Reel 500' Reel	1/2"	.375"	.062"	01 05 06 07 08 10	240 PSI	140 PSI	4.12	2-1/4"	PI, C
1J-213- 1AA-213-	50' Bag 250' Reel	5/8"	1/2"	.062"	01 10	170 PSI	100 PSI	5.30	3-1/4"	PI, C

### Metric Sizes

Part Number & Color Code	Packaging Unit Size	OD mm	ID mm	Wall mm	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C	150°F/65°C			
1J-246- 1C-246- 1B-246- 1A-246-	100' Bag 500' Reel 1000' Reel 2500' Reel	3	1.8	.6	10	410 PSI	240 PSI	.33	6.3 mm	PI, C
1J-201- 1C-201- 1B-201- 1A-201-	100' Bag 500' Reel 1000' Reel 2500' Reel	4	2.7	.65	01 03 05 06 07 08 09 10 12	350 PSI	210 PSI	.51	12.7 mm	PI, C
1J-241- 1A-241-	100' Bag 1000' Reel	5	3	1	01 05 06 07 08 10	420 PSI	250 PSI	.94	9.5 mm	PI, C
1J-242- 1B-242- 1A-242-	100' Bag 500' Reel 1000' Reel	6	4	1	01 05 06 07 08 09 10	340 PSI	200 PSI	1.17	17 mm	PI, C
1J-243- 1A-243-	100' Bag 500' Reel	8	6	1	01 05 06 07 08 10	250 PSI	150 PSI	1.64	38 mm	PI, C
1J-244- 1A-244-	100' Bag 500' Reel	10	8	1	01 03 10	190 PSI	110 PSI	2.11	51 mm	PI, C
1J-245- 1A-245- 1AA-245-	100' Bag 250' Reel 500' Reel	12	10	1	01 10	150 PSI	90 PSI	2.55	76 mm	PI, C

Variations Available:

Coiling • Colors • Cutting • Bonding • Printing • Packaging • 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: 1/8" - 1/4": ±.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

D.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.



D.O.T. Nylon

## High Pressure Nylon 11

Freelin-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

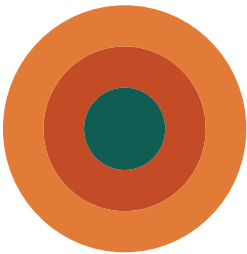
Freelin-Wade's Super Soft Nylon 11 tubing is formulated with a special compound to significantly increase flexibility while retaining the outstanding qualities of our standard Nylon tubing. This advantage makes our Super Soft Nylon 11 the ideal choice where media and environmental conditions make polyurethane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

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

## D.O.T. Tubing

Part Number & Color Code	Packaging Unit Size	OD	Wall	Standard Colors	Burst Pressure 75°F/25°C	lbs./100'	Bend Radius	Fitting
1J-220- ___	100' Bag	1/8"	.023	01 05 07 08 09	1000 PSI	.34	3/8"	PI, C
1C-220- ___	500' Reel							
1B-220- ___	1000' Reel							
1A-220- ___	2000' Reel							
1J-221- ___	100' Reel	5/32"	.032	01 05 06 07 09	1200 PSI	.57	1/2"	PI, C
1C-221- ___	500' Reel							
1B-221- ___	1000' Reel							
1A-221- ___	2000' Reel							
1J-222- ___	100' Bag	3/16"	.036	01 05 06 08 09	1200 PSI	.77	3/4"	PI, C
1B-222- ___	500' Reel							
1A-222- ___	2000' Reel							
1J-223- ___	100' Bag	1/4"	.040	01 05 06 07 08 09	1200 PSI	1.21	1"	PI, C
1B-223- ___	500' Reel							
1A-223- ___	1000' Reel							
1J-225- ___	100' Bag	5/16"	.040	01 05 07 09	1000 PSI	1.57	1-1/4"	PI, C
1A-225- ___	500' Reel							

Variations Available: Coiling • Colors • Cutting • Bonding • Printing • Packaging • Sizes



## High Pressure Nylon 11

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C	150°F/65°C			
1J-280- ___ 100' Bag	1B-280- ___ 500' Reel	1A-280- ___ 2500' Reel	1/8"	.073"	.026"	10	800 PSI	.39	5/16"	PI, C
1J-281- ___ 100' Bag	1B-281- ___ 500' Reel	1A-281- ___ 2000' Reel	3/16"	.109"	.039"	10	800 PSI	.88	7/16"	PI, C
1J-282- ___ 100' Bag	1B-282- ___ 500' Reel	1A-282- ___ 1000' Reel	1/4"	.150"	.050"	01 10	800 PSI	1.51	9/16"	PI, C
1J-283- ___ 100' Bag	1A-283- ___ 500' Reel	1A-284- ___ 250' Reel	3/8"	.225"	.075"	10	800 PSI	3.39	1"	PI, C
1AA-284- ___ 500' Reel			1/2"	.350"	.075"	10	530 PSI	4.81	2"	PI, C

**Variations Available:** Coiling • Colors • Cutting • Printing • Packaging • Sizes

### Super Soft Nylon

## Super Soft Nylon 11

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting		
						75°F/25°C	150°F/65°C					
1J-260- ___ 100' Bag	1C-260- ___ 500' Reel	1B-260- ___ 1000' Reel	1A-260- ___ 2500' Reel	1/8"	.093"	.016"	01 10	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"	01 10	220 PSI	130 PSI	.45	9/16"	PI, C
1J-264- ___ 100' Bag	1B-264- ___ 500' Reel	1A-264- ___ 1000' Reel	1/4"	.180"	.035"	01 10	180 PSI	110 PSI	1.04	1"	PI, C	
1J-265- ___ 100' Bag	1A-265- ___ 500' Reel	1J-266- ___ 100' Bag	1A-266- ___ 500' Reel	5/16"	.232"	.040"	01 10	170 PSI	100 PSI	1.52	1-1/4"	PI, C
1J-267- ___ 100' Bag	1AA-267- ___ 500' Reel			1/2"	3/8"	.062"	01 10	140 PSI	80 PSI	3.80	2-1/2"	PI, C

### Metric Sizes

Part Number & Color Code	Packaging Unit Size	OD mm	ID mm	Wall mm	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting		
						75°F/25°C	150°F/65°C					
1J-271- ___ 100' Bag	1B-271- ___ 500' Reel	1A-271- ___ 1000' Reel	5	3	1	10	310 PSI	180 PSI	.95	12.7	PI, C	
1J-272- ___ 100' Bag	1B-272- ___ 500' Reel	1A-272- ___ 1000' Reel	6	4	1	01 10	240 PSI	140 PSI	1.10	19.0	PI, C	
1J-273- ___ 100' Bag	1A-273- ___ 500' Reel	1J-274- ___ 100' Bag	1A-274- ___ 500' Reel	8	6	1	01 10	160 PSI	100 PSI	1.70	23.8	PI, C
1J-275- ___ 100' Bag	1AA-275- ___ 500' Reel			10	8	1	01 10	120 PSI	70 PSI	2.20	28.6	PI, C
				12	10	1	01 10	90 PSI	50 PSI	2.80	38.0	PI, C

**Variations Available:**

Coiling • Colors • Cutting • Bonding • Printing • Packaging • Sizes