









PNEUMATIC TUBING

Polyurethane Tubing

For Extensive Flexing Applications

Polyurethane tubing is usually the best choice for applications requiring extensive flexing, a small bend radius or where kinking can be a problem. Nycoil uses a raw material that will not break down or be affected in any way by moisture. Being a naturally rubbery compound, it requires no plasticizers that can leach out over time. This material also offers superior resistance to grease, oils, fuels and abrasion, making it suitable for a wide variety of applications.

Since Nycoil's Push-To-Connect Fittings have the highest gripping "force" as compared to other brands, it is assured that our tubing will always work with our fittings. However, when using Push-To-Connect Fittings from other manufacturers with any brand of Polyurethane tubing, testing for retention reliability is strongly recommended. Further, we

recommend using only Polyurethane tubing made from 95A Durometer hardness compound with Push-To-Connect Fittings. In addition, compression type fittings should never be used with Polyurethane tubing of any hardness.



Polyurethane Property Overview

- Extreme Flexibility
- Reduced Bend Padius
- Moisture Resistan
- Abrasion Resistant
- Temperature range:
 40°F to ± 165°F (-40°C to ± 75°C)

Typical Applications

- Water & Pneumatic Lines
- . Spot Welder
- . Macharo
- Tools
- Prisumatic Plumbino
- · Pick & Place Automation

Polyurethane Products

- Pneumatic Tubing
- EZ StripTM
- · Mini-Coils



95A Durometer Polyurethane Tubing

Although 95A Durometer is the hardest compound used for Nycoil's Polyurethane tubing, it is still flexible and has a smaller bend radius (without kinking) than most other plastic tubing. Produced from raw materials that resists moisture, fungus, abrasion and a broad range of chemicals making it a popular choice for many applications.

A wide selection of colors makes it adaptable to the functional and aesthetic requirements of most pneumatic circuits and equipment. 95A Durometer Polyurethane Tubing can be used with most brands of Push-To-Connect or Hose Barb Fittings.



FITTIN

BALL VALVES

REGULATOR & LUBRICATOR

HOSE















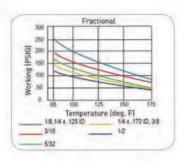
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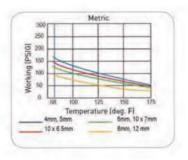
= Clear

= Black

= Red

= Blue





95A Durometer Polyurethane Fractional Inch Tubing

Tube 0.0	Tube	Wall	Part Number			Min Benti	Weight	Working		Sursi
		Thickness	100	500	1000	Radios		Pres	sure	Pressure
	inch	inch	Reel	Reel	ficel	meh	(000 (III=)	PSINTERF		PSIMES F
1/8	0.062	0.031	6322	8722	5922	1/4	4.7	267	160	800
5/32	0.093	0.031	6235	5775	E525	3/8	6.2	167	100	500
3/16	0.107	0.040	6333	6733	6633	3/8	10	200	120	600
1/4	0.170	0.040	E344	5744	8645	1/2	13.6	133	80	400
1/4	0.125	0.062	6348	6746	6546	3/4	18.8	267	160	800
3/8	0.250	0.062	6380	6786	6657	1	21.3	133	80	400
1/2	0.320	0.090	6387	6787 =	6887	2	59.6	150	90	450

* Indicates 250' Reel. Adding a Color Code Suffix to the part number is required. If no color is selected, Clear (0) Color will be supplied. Custom sizes, lengths and colors are available. Please consult the factory with your specifications.

95A Durometer Polyurethane Metric Tubing

= Yellow

	Tube i.D.	Wall	Part Number			Min. Bend	Weight	Working		Burst
U.D.		Thickness	160'	500	1000	Radius		Pressure		Pressure
	inim	mm	Heal	Real	Real	mili	1506/ (ba.)	Pelitrical	PSIGNATE	Printed F
4	2.5	0.75	7207	7603	7903	12	6	167	100	500
5	3	1	7885	7805	7905	15	10.1	167	100	500
6	4	1	7.308	7606	PEIDE	18	12.6	133	80	400
8	6	1	7308	7608	7908	24	17.6	97	58	290
10	6.5	1.75	7210	7610	75/10	25	36.1	150	90	450
12	9	1.5	7313	7818	7913	48	39.5	97	58	290

Code
Sulfix Key
= Clear
= Black
Z = Red
3 = Blue
= Green

Adding a Color Code suffix to the part number is required. If no Color code is selected, Clear (0) color will be supplied. Custom sizes, cut lengths, reel lengths and colors are available upon request - contact Customer Service. Please refer to the Technical Section for working pressure charts and chemical resistance.















"EZ-Strip™" Bonded Polyurethane Tubing, 95A Durometer & 85A Durometer

Nycoil offers Bonded Tubing in Polyurethane and Nylon. Due to the differences in the properties of these two materials, each is bonded in a different manner. Polyurethane uses our EZ-StripTM process, which is a continuous bond along the entire length of the tubes. Bonded Polyurethane is easily separated, meaning the tubes can be pulled apart without compromising their dimensional integrity. Maintaining perfect "roundness" is essential for a secure and leak free fitting connection. EZ-StripTM is also available as Mini Coils.



"EZ Strip" Features

- Saves Time & Money Quick Installation: Running a single strip of bonded tobing is much faster than running multiple tubes individually
- Allows Compact Circuit
 Space Economy, Bonded pibes
 provide a more precise and consistent dimension than bundles, wraps or channels
- Reduces Errors
 Visible Traceability Color-coded bonded tubes make uniting a Circuitiess complicated and easier to follow
- Enhances Appearance of the Circuit & Equipment
 Eliminates Clutter: Bonded tubing will eliminate tangled and sloppy tubing nins

95A Polyurethane "EZ-StripTM" Tubing

Tube G.D.	Tube LD:	Part Humber	Number		
inch	meh				
1/8	0.062	6276	2, 3, 4, 5, 6		
5/32	0.093	8325	2, 3, 4, 5, 6		
3/16	0.107	8833 -	2, 3, 4		
1/4	0.125	8946	2, 3, 4, 5, 6		
3/8	0.250	RISE -	2.3.4.5.6		

Color Code	Length Code		
Saffix Key	Suffix Key		
= Clear & Black = Clear, Black & Red = Clear, Black, Red & Blue = Clear, Black, Red, Blue & Green = Clear, Black, Red, Blue, Green & Yellow	A = 25 ft B = 50 ft C = 100 ft		

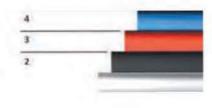
To Order:

First add the number of tubes required to the first location to the Part Number. Then add the A, B, or C after the "-" to complete the Part Number and to designate the required continuous length. Longer continuous lengths, more than 6 tubes or custom color sequences available on request.

Example: B322 - = 4 tubes at 50 feet.

95A Polyurethane "EZ-StripTM" Mini Coils

O.D.	Tube I.D.	Wall	Part Number	Overall Length	Length w/o Talk
insh	inch	inch		Inch	Inch
5/32	0.093	.031	BASIU	120	108
5/32	0.093	.031	D4517	24	12
5/32	0.093	.031	B4617	36	24
5/32	0.093	.031	BARIO	60	48
5/32	0.093	.031	BABIT	84	72
1/8	0.062	.031	B802	24	12
1/8	0.062	.031	845E3_	36	24
1/8	0.062	.031	RABEL	48	36
1/8	0.062	.031	BURRE	60	48
1/4	0.125	.062	BARATI	120	108
1/4	0.125	.062	EABAS	36	24
1/4	0.125	.062	H4845_	60	48
1/4	0.125	.062	Ba847	84	72
3/8	0.250	.062	B4860	120	108
3/8	0.250	.062	DARRE	60	48

















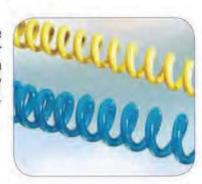




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95A Polyurethane Mini-Coil

The tight diameter of our Mini-Coils make them extremely flexible and ideal for use with robotics, instrumentation, small pneumatic tools, control circuits or any other application requiring either constant or intermittent motion. They include a pigtail on each end for easy fitting installation or connection to other devices. We offer a variety of colors for coding purposes or to be aesthetically compatible with other equipment. Custom colors, sizes and lengths are available — please contact Customer Service.



95A Polyurethane Mini-Coil

Tube	lube	Wall	Part		Gai	i Dimens	HOME			Code Code		
0.0.	lati	Thickness	Number	ûyeel) Length	Langit wire falls	Marchae	Coll 0.0. 181	Lemnard Lemnard *C*				
medi	inch	inch		Inch	meh	Colle	lach	melt	Suffix Key			
1/8	1/16	0.031	4822	24	12	6	3/4	3/4	D = Clear	3 = Blue	6 = Orange	
1/8	1/16	0.031	4823	36	24	12	3/4	1-1/2	1 = Black	4 = Greeπ 5 = Yellow	7 = Gray	
1/8	1/16	0.031	3824	48	36	18	3/4	2-1/4	2 = Red			
1/8	1/16	0.031	4825_	60	48	23	3/4	3				
5/32	3/32	0.031	4812	24	12	6	7/8	1	0 = Clear 1 = Black 2 = Red	4 = Green 7 = G	6 = Orange	
5/32	3/32	0.031	4813	36	24	12	7/8	1-3/4			7 = Gray	
5/32	3/32	0.031	\$815_	60	48	23	7/8	3-1/2			13=Tranparent Blue	
5/32	3/32	0.031	4817	84	72	24	1-1/8	3-3/4				
5/32	3/32	0.031	4810	120	108	35	1-1/8	5-1/2				
1/4	1/8	0.062	4843	36	24	6	1-1/2	1-1/2	0 = Clear	ear 3 = Blue	6 = Orange	
1/4	1/8	0.062	4845	60	48	12	1-1/2	3	1 = Black 2 = Red	4 = Green	7 = Gray	
1/4	1/8	0.062	4847_	84	72	18	1-1/2	4-1/2		5 = Yellow	13=Tranparent Blue	
1/4	1/8	0.062	4840_	120	108	26	1-1/2	6-1/2				
3/8	1/4	0.062	4865	60	48	7	2-1/2	2-3/4	0 = Clear	2 = Red	4 = Green	
3/8	1/4	0.062	4860	120	108	15	2-1/2	5-3/4	1 = Black	3 = Blue		

Mini-Coils are fabricated with precision tubing that can be used with Push-to-Connect fittings and intended for applications where motion and fatigue for non flexible connection is a concern. Supplied with "pigtails" for connection. All "tails" are 6" long on both ends. 5/32" units of lengths longer than 60" are manufactured with 1-1/8" Coil O.D. for shorter compacted length. Adding a Color Code Suffix to the part number is required. If no color is selected, Clear (0) Color will be supplied. Custom sizes, lengths and colors are available. Please consult the factory with your specifications.

Recommended working length is 85% of the total length.

