

TWIST WRIGGLE FLEX

Any other tubing would kink.

Fre-Thane® Abuse-Proof Polyurethane Tubing in 70A, 85A, 90A and 95A Durometers

In 1980, Freelin-Wade introduced polyurethane tubing to the fluid power industry. What we saw in polyurethane was that it was the perfect solution for virtually all pneumatic tubing systems. We thought then, and it has proved true over time, that PUR has revolutionized the tubing business.

We call our Fre-Thane® tubing the “Abuse-Proof” tube. It resists all sorts of kinking, bending, twisting and crushing, always returning to its original shape. In all of our durometers, Fre-Thane is highly flexible, bondable and uniquely available in clear and opaque colors.

95A polyurethane is the bread-and-butter pneumatics tube.

It has many advantages including the ability to use push-to-connect fittings. It's especially well suited for coils in situations when you need the added bounce back that the stiffer material provides. We offer 95A in 17 stock colors with the ability of course, to match any other color you can dream up.

Freelin-Wade is North America's largest independent manufacturer of plastic tubing. With our 99% on-time shipping rate and our reputation for quality, our customers know their tubing will fit and arrive on time. Find out for yourself how easy it is to do business with Freelin-Wade.

Well Connected



FRE-THANE ABUSE-PROOF TUBING

OK, I get that it's tough, but can I get nine tubes bonded together and coiled in a rainbow of transparent neon colors with my logo printed on it?

Yes. In fact, we do things like this every day. We'll even make a prototype for you so you can make sure it's exactly what you want... which is what we are all about. Customers tell us every day that we are their easiest supplier to work with. We simply don't say no.

Our Fre-Thane® variations include coiling, cutting, bonding, printing, special packaging and sizes. And unlike our competitors, we do all of that with no minimum order.

Like everything else we do, we'll turn your request around in record time. Our stock tubing will ship within 24 hours, and usually the same day you place your order. Our rule of thumb for variations is to turn around coil variations in as little as one week. The same with cut lengths, custom packaging and printing. Bonding of our catalog tubing usually takes two weeks and we can do a custom extrusion in under three weeks.

Features

- Fre-Thane® is made from waterproof ether-based polyurethane.
- It is our most versatile tubing, with a complete slate of variation possibilities.
- Fre-Thane's most notable quality is its memory. The shape we manufacture the tubing in is the shape it will still be in after years of use and abuse.
- Resists water, fuel, oil, fungus and many chemicals.

Some Interesting Applications

- Aerospace: Companies like Boeing use Fre-Thane in their critical pneumatic systems where they need consistent performance.
- Science: Fre-Thane coils are used on the bouys that are in oceans around the world that monitor wave action for tsunamis. The coils are subjected to the worst abuse you can imagine: dramatic weather, salt water, and pressure. Fre-Thane won't crack and always springs back to its manufactured shape.
- Robotics: Each year, Freelin-Wade donates miles of Fre-Thane for use by high school students participating in the FIRST Robotics Competition.
- Art: We've seen dozens of artists use Fre-Thane in their art because it's beautiful. Their works command high prices and have won numerous awards.

Specifications

Temperature Range:	-40° F to +165° F	-40° C to 73° C
Diameter Tolerances:	±.005" on <9/16" ID	±.007" on >3/4" ID
Tube Markings:	None	
Working Pressure:	3:1 Safety Factor	
Base Resin Compliance:	95A: NSF61, Meets UL94HB 90A: NSF61, FDA 85A: NSF61, Meets UL94HB, USPVI 70A: Meets UL94HB	
Recommended Fittings:	Barb for all durometers Push-to-Connect for 95A	



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