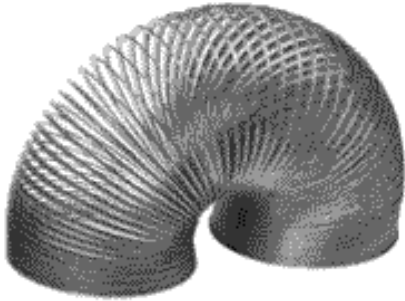


Have you seen "Slinky"?



You know Slinky? Those springs that walk down the steps. Formed like a tube and it bends around itself amazingly narrow as it walks the steps. The shape is round (not oval) although it bends. So it never kinks although the bending radius is minimal. Still, as a tube it is very strong.

Slinky and Mr PEX Tubing has a lot in common. In the PEX version, the molecular chains are stretched out like fibers and oriented around the tubing. Like the flat wire circles around the Slinky spring. Making the Tubing very flexible and kink-resistant. But still it is very strong to withstand inside pressure.

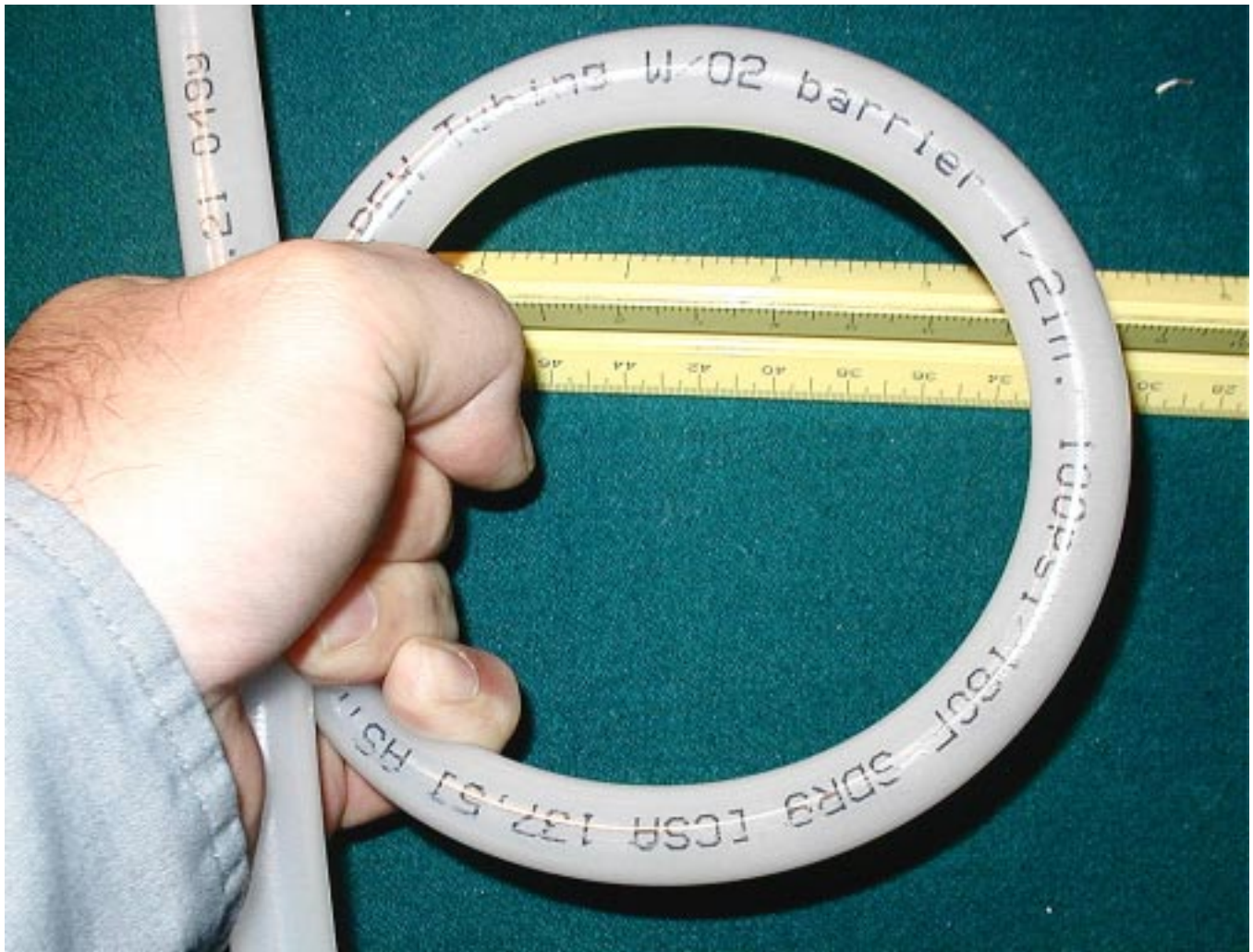


Of course you know about fiber strength. A tree has its fibers oriented along its length. Boards are cut out of logs along their length. These boards are fairly stiff and strong. You can't easily break a 1/2" board by hand. But now, if you cut a log across and make a 1/2" board, you can easily break it. It is not stiff or strong in that direction.

Are molecules like fibers? You bet they are.

Take Polyamide as an example. That's Nylon. You may mold Polyamide into a form and you can then test its tensile strength. Now, instead of molding the same plastic you can stretch it from its melt. Pull it out from its molten stage and make a fishing line. The strength of the fishing line is many, many times stronger than the molded piece of the same material. The molecules in the fishing line are untangled and stretched out side by side along the line. It's very strong and very stiff as compared to the molded piece. So what about PEX? The conventional PEX is like the molded piece. The molecules are not stretched out or oriented. But in Mr PEX Tubing we have done it! We let the molecular chains circle around the tubing. The fibers are stretched to be strong in the direction inside pressure is applied. And in the same time lined up to be flexible - like Slinky!





- No ovalization
- Not even close to kink
- Radius of around 2 inch