

Mr PEX® Systems is one of the leading radiant floor heating and domestic hot and cold water systems suppliers in North American marketplace. Mr PEX® Tubing, is considerably more flexible, kink-resistant and able to hold more pressure than any other PEX Tubing on the market today.

## Mr PEX® Tubing and Slinky® have a lot in common.

A Slinky® is suspended on elastic threads around itself. There is no reinforcement along its length. Thus making it free to move and remarkably flexible. The shape remains round. It never kinks, although the bending radius is minimal.



Similarly, PEX molecular chains extend around the tubing like the Slinky® string circles around itself. This makes Mr. PEX® Tubing extremely flexible and kink-resistant. The molecular chain is aligned to resist stress around its perimeter. It is unusually strong, resisting inside pressure.

The molecular orientation is achieved during extrusion which is a very unique process. Crosslinking occurs simultaneously with the orientation. Peroxide crosslinking guarantees optimal Tubing properties. See Sample Specification below.



### Sample Specification for Mr PEX® Tubing

- Tubing shall be crosslinked polyethylene in accordance with ASTM F 876 as manufactured by LK PEX AB. Tubing shall be listed to ASTM F 876/877 by an independent third party testing laboratory.
- Independent listing agency shall perform at least 3 unannounced control visits to the production plant annually, and perform its own tests in accordance with ASTM F 876/877.
- Tubing shall be temperature and pressure rated by the Hydrostatic Stress Board of PPI (Plastics Pipe Institute) at all 3 temperatures mentioned in ASTM F 876/877. The rating shall be as follows: 160 psi at 73.4°F; 100 psi at 180°F; 80 psi at 200°F
- Tubing shall be made from polyethylene compounds which have been crosslinked by peroxides in extrusion (PEX-a).
- The barrier tubing shall have an EVOH oxygen barrier capable of limiting oxygen diffusion to no greater than 0.1 g/m<sup>3</sup>/day at 104°F as per DIN 4726. Tubing sizes 3/8" and 1/2" shall also have a thin coating of PE on top of the barrier in order to reduce noise when installed in Alu plates.
- Tubing shall be available in minimum 5 sizes in coils of up to 600 ft. for nominal size 3/8", 1,600 ft. for 1/2", 1,000 ft. for 5/8", 500 ft. for 3/4", and 300 ft. for 1".
- Tubing density shall not exceed 932 kg/m<sup>3</sup> in order to be adequately flexible to install.
- Tubing shall be able to be exposed to a bending radius of less than 4 times the actual outside diameter without kinking.
- Tubing shall be indelibly marked with trade name, size, SDR, pressure rating 100 psi at 180°F, ASTM standard reference, independent third party certifiers mark, production date, and running ft. length - every third ft. The marking on barrier tubing shall be protected by at least one protective plastic layer and still be clear to read.
- Running ft. marking shall start from 0 at the inside of each coil - so that the installer will always know how much Tubing is left in each coil.
- Every coil shall have an inside diameter exceeding 15 inches, so that memory-effect of its coiling is minimal.
- Every box of Tubing shall carry warning on labels instructing to limit exposure to sunlight and to not allow embedded Tubing to freeze.
- Tubing shall have a 25 year warranty and liability insurance covering at least \$1,000,000 per occurrence, both by Manufacturer and US Distributor.