



TOWN OF FRANKLIN

DEPARTMENT OF PUBLIC WORKS

257 Fisher Street
Franklin, MA 02038

March 23, 2022

Franklin Department of Public Works
257 Fisher Street
Franklin, MA 02038

RE: Plastic Water Service Requirements and Regulations

If the following conditions are present for a proposed waterline service connection, "plastic piping" may be substituted and allowed for "copper piping".

- The applicant requests in writing plastic piping instead of copper piping.
- The proposed water service (from curb stop to meter location) is over 25 feet in length.

If allowed and approved, the proposed plastic water pipe and fittings must meet the following requirements:

- Comply with AWWA C901, ASTM D2737 and D3350.
- Plastic tubing shall be copper tube size (CTS) for use with standard stops and fittings with AWWA outlets or compression-type outlets with a minimum of 160 pounds per square inch.
- Tracing wire shall be attached to the outside of the piping not incorporated into the plastic piping. The tracer wire should be taped to the pipe every 8 to 10 feet.
- Blue color, HDPE, SDR9, and have a minimum working strength of 200 psi, 600 psi bursting strength.
- Single piece without breaks or couplers up to 500 linear feet.
- Fittings for plastic pipe shall be waterworks brass-compression style meeting or exceeding AWWA C800. Compression joints shall provide watertight seal up to 300 psi. Setscrew compression joints shall not be allowed.
- Ball valves on plastic tubing must be accompanied by stainless steel insert stiffeners.
- Shall be manufactured in North America.
- Applicants must provide a copy of the pipe manufacturers written specifications.

During installation, the following procedures shall be followed:

- Piping from the water main to the "curb stop" shall be copper piping.
- The plastic piping from the "curb stop" to the water meter will be the same diameter size as the copper piping from the water main to the "curb stop".
- Piping is to be bedded and surrounded by 12 inches of sand.

- Tracing wire shall be exposed at ground level at the curb box and through the buildings foundation.
- Blue Magnetic-Traceable Marking Tape with a minimum 2-inch width shall be installed 12 inches above the complete plastic water service line.
- Pipe shall be attached and anchored to copper piping before attachment to the water meter.

*****Plastic Water Lines can NOT be used for grounding out electrical services*****

These requirements and Regulations are subject to change per the discretion of the Franklin Department of Public Works.



Robert A. Cantoreggi
Director



Douglas M. Martin, P.E.
Water & Sewer Superintendent