

UPONOR VS. PEX-B AND ASTM F1960 SYSTEMS

Stronger System Greater Reliability

Uponor PEX-a pipe and ProPEX® ASTM F1960 connections offer the industry's strongest, most reliable solution for residential and commercial applications.

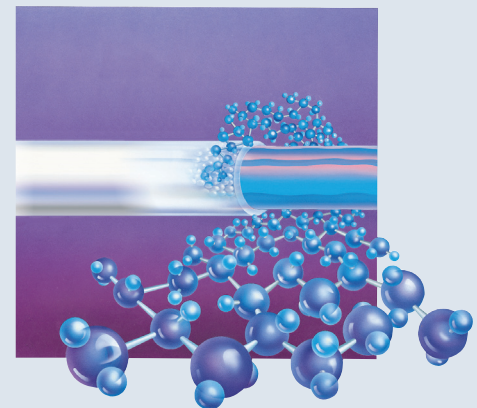
With more than 40 years of service and 17 billion feet of pipe installed worldwide, Uponor has been providing reliable PEX piping systems longer than any other manufacturer in North America. Backed by a 25-year transferable limited warranty and supported by a trained staff of field technicians and a nationwide distribution network, Uponor is the brand professionals trust most.

| Why Uponor is Superior | Uponor | PEX-b and F1960 |
|---|--------|-------------------------|
| Uniform crosslinking through the entire pipe wall | ✓ | ✗ |
| Kink repairable to eliminate unnecessary couplings | ✓ | ✗ |
| Tightest bend radius for fewer required fittings | ✓ | ✗ |
| Extruded expansion rings capitalize on the shape memory of PEX-a for a more reliable connection | ✓ | ✗ |
| Most comprehensive offering of ASTM F1960 fittings in the market to meet any application need | ✓ | ✗ |
| EP fittings and pipe made in the USA to meet Buy American Act (BAA) project requirements | ✓ | ✗ |
| Superior resistance to stress-crack corrosion for a stronger, more robust system | ✓ | ✗ |
| No micro-cracking during pipe expansion | ✓ | ✗ |
| Proven joint integrity with seal time test and compliance to ASTM F1960 | ✓ | Check with manufacturer |



Why Crosslinking Matters

Crosslinking relates to the molecular bond inside the pipe. The higher, more uniform crosslinking in Uponor PEX-a pipe means a more durable, flexible and damage-resistant pipe with faster, stronger expansion connections that hold tight and won't leak.



UPONOR VS. PEX-B AND ASTM F1960 SYSTEMS

Uponor, the Premier Brand

▶ Extruded vs. Molded Rings



Uponor ProPEX expansion rings are extruded for maximum strength and capitalize on the shape memory of PEX-a to ensure a secure fitting connection. PEX-b rings are molded, not extruded; this eliminates the benefits of strength and shape memory for a connection that could be compromised.

▶ Comprehensive Offering



Uponor provides the most comprehensive offering of ASTM F1960 fittings in brass, lead-free (LF) brass, and engineered polymer (EP) for a complete Uponor system from pipe to rings to fittings.

▶ Sealing Time Test



The Uponor ProPEX connection method underwent third-party pressure testing on the joint as assembled at different environmental conditions. The results offered assurance to the fastest and most durable sealing times, proving the Uponor system offers the best connection method for ASTM F1960 fitting systems.

▶ ASTM F1960 Compliance



Uponor's PEX-reinforcing rings and cold-expansion fittings are tested and certified to ASTM F1960. It is unknown whether all PEX-b manufacturers have been tested and listed to this industry standard for quality.

▶ Stress-Crack Corrosion Resistance



Stress-crack corrosion is the growth of a micro-crack that can lead to unexpected sudden failure of a piping system. Due to its higher and more uniform crosslinking manufacturing method, Uponor PEX-a pipe offers greater resistance to stress-crack corrosion compared to PEX-b pipe for a stronger, more durable piping system.



Leak on PEX-b pipe

This image shows product taken from an actual installation where Uponor PEX-a pipe on the left remained intact, but the PEX-b pipe on the right leaked due to micro-cracking from expansion. Repairing leaks costs money, adds time, and damages your valuable reputation.

The Truth About Burst Pressure

Uponor PEX-a pipe undergoes extensive quality testing daily to ensure it exceeds the ASTM F876 industry standards for burst pressures. Uponor PEX-a pipe consistently tests to nearly double the burst pressure requirement for PEX pipes.

PEX-b manufacturers claim their pipe offers higher burst pressures. However, the manufacturing process for PEX-b that results in higher burst pressures comes at a cost: PEX-b pipe is a stiffer product that experiences micro-cracking when expanded and also cannot be kink repaired.

▶ Learn more about how Uponor can help drive your business forward at [uponor.com](https://www.uponor.com).

Uponor Inc.
5925 148th Street West
Apple Valley, MN 55124
USA

T 800.321.4739
F 952.891.2008

Uponor Ltd.
6510 Kennedy Road
Mississauga, ON L5T 2X4
CANADA

T 888.994.7726
F 800.638.9517

uponor

Moving > Water