Uponor PEX vs. PE-RT

With more than 40 years of proven performance and 17 billion feet of pipe installed worldwide, Uponor is the leader in flexible plastic piping systems offering the industry's most tested, listed and code-approved PEX piping product on the market.

PE-RT is a non-crosslinked polyethylene piping material that has disadvantages when compared to the properties and characteristics of Uponor PEX.

[1]Largest diameter available is 1" with the exception of Legend potable PE-RT which is available up to 2".

[2]Watts is promoting the use of their pipe with ASTM F1960 fittings. However, the Milwaukee expansion tools are designed to work specifically with Uponor PEX, so PE-RT F1960 is a risk.

[3]Legend claims to have a 100-year limited warranty. However, it is non-transferable.

[4]PEX can be ground down and reused (does not include being used in the extrusion process); PE-RT can be ground down and reused (including being used in the extrusion process).

Features	Uponor PEX	PE-RT
Kink repairable	✓	✗
200ºF temperature rating	✓	✗
Up to 3" sizes	✓	✗[1]
Potable listing for barrier pipe	✓	✗
Compatible with ASTM F1960 fittings	✓	✗[2]
Freeze-resistance	✓	✗
180ºF temperature rating	✓	✓
Compatible with F1807 and F2159 fittings	✓	✓
25-year warranty	✓	✓[3]
Recyclability	✓	✓[4]
Code-compliant	✓	✓
More flexible than PEX-b and PEX-c	✓	✓

The Uponor advantage

Support

- Extensive sales team expertise
- Dedicated product development staff
- Technical and application support via phone, email or live chat online
- Design assistance for plumbing, fire safety, hydronic piping and radiant heating and cooling systems for residential and commercial applications
- In-field and factory training
- Jobsite installation support

System performance

- Kink repairable (Note that a kink in PE-RT piping will require a coupling, which, in some jurisdictions, is not allowed in the slab.)
- Greater freeze-resistance (due to the crosslinking of Uponor PEX)
- Higher pressure/temperature ratings for radiant and potable-plumbing applications (Uponor PEX pipe is rated to 200ºF at 80 psi; PE-RT is only rated to 180ºF.)
- Potable rating on Wirsbo hePEX™ barrier pipe allows the use of short pieces for plumbing applications (allowing the contractor to use unused barrier pipe for potable-plumbing applications, eliminating waste and saving money)
- Best cold-weather workability (due to the crosslinking of Uponor PEX)
- Integrated pipe and fittings solution with engineered polymer (EP) or brass ProPEX® (ASTM F1960) fittings
- Broadest range of system possibilities from radiant panels to distribution piping up to 4" in diameter
- Milwaukee® M12™ and M18™ expansion tool system designed specifically for use with Uponor PEX

Confidence

- More than four decades of long-term, proven performance with 17 billion feet of Uponor PEX pipe installed worldwide
- Most tested, listed and code-approved PEX piping product on the market

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