



A pipe's dream

Why choose PE-RT for plumbing pipe?

Flexibility, efficiency and performance have made polyethylene a popular material choice for plumbing pipe, in new construction and rehab projects. But which kind of polyethylene is best? There's cross-linked polyethylene (PEX). And there's Polyethylene of Raised Temperature (PE-RT). Both offer outstanding performance. **But it's PE-RT that offers processing and sustainability advantages that PEX can't.**

The difference? PE-RT resins are manufactured using bimodal technology, giving the material inherent properties required to perform in raised temperature and chlorinated potable water conditions. Polyethylene resins used to make PEX pipe must undergo a post-extrusion cross-linking treatment in order to achieve the required strength in the finished pipe. That extra step increases production time and overall costs.

Our HYPERTHERM™ Polyethylene of Raised Temperature (PE-RT) Resins offer outstanding performance attributes for plumbing pipe systems:

- Excellent toughness and flexibility
- Durable, virtually leak-free performance
- Corrosion resistance
- Light weight
- Ease of installation
- Lower overall cost versus metal pipe
- Excellent taste and odor characteristics
- Little or no maintenance required

Strong. Reliable. Sustainable.

HYPERTHERM™ PE-RT meets ASTM F2769 performance requirements, which are the same as the ASTM F876 standards used for PEX.⁽¹⁾ Dow's PE-RT resins also offer CL5 oxidative resistance classification, excellent hydrostatic strength and strong performance that's comparable to PEX. Dow's PE-RT resins also meet NSF 14 and 61 requirements.

Simple tooling on existing extrusion lines makes for easy resin processing. No cross-linking means fewer steps and less energy to manufacture. Extreme durability means fewer repairs and replacement over the life of the pipe system. **And, unlike a crosslinked material, PE-RT is 100% recyclable, making HYPERTHERM™ PE-RT the sustainable choice in plumbing pipe.**



Hypertherm™

PE-RT resins by 

Convinced? For more information, contact your Dow representative.

⁽¹⁾ASTM F2769-18, Standard Specification for Polyethylene of Raised Temperature (PE-RT) Plastic Hot and Cold-Water Tubing and Distribution Systems, ASTM International, West Conshohocken, PA, 2018, www.astm.org

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