

BUILDING & CONSTRUCTION DIVISION



PPI TR-52 PEX Resistance to Breakage (Freezing)

PPI's Building & Construction Division has released a new Technical Report related to the resistance of PEX pipe and tubing to allow fluid within to freeze, and its resistance to break when the fluid is frozen.

PPI TR-52 Resistance of PEX Pipe and Tubing to Breakage When Frozen (Freeze-Break Resistance) explains how proper installation and protection can prevent freezing of water or other fluids inside PEX, how the inherent material properties of PEX can delay freezing of water, and how PEX can resist breaking if the fluid inside does freeze.

The Report references several research studies that have analyzed the behavior of PEX tubing when subjected to repeated freeze/thaw cycles.

It also includes excerpts from Canadian and US model plumbing and mechanical codes about protecting all pipes from freezing, as well as PPI's recommendation about protecting pipes in specific applications.

Access the full content of **TR-52** at
<https://plasticpipe.org/pdf/tr-52-2020.pdf>



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