

TECHNICAL BULLETIN

» TYPE-A PEX TUBE

PowerPEX™

SUBJECT: Type-A PEX Tube - Color

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PAGE: 1 of 1

Sioux Chief's Type-A PowerPEX tubing may have a slight yellow or cream-colored tint, which is more noticeable on white-colored tubing. This coloration is primarily associated with a specialized antioxidant, incorporated into the PEX resin. It **IS NOT** an indication of product degradation and **DOES NOT** negatively affect the tubing's physical properties or long-term performance.

Antioxidants play an important role in protecting the tube from heat and chlorine exposure, helping preserve its physical properties and supporting long-term performance throughout its service life. Sioux Chief's resin supplier uses a specialized compounding process to ensure the antioxidant and other protective additives are evenly distributed throughout the PEX resin, helping provide consistent formulation and performance. The 'yellowish' appearance is an expected result of this process, and the antioxidant used in the material.

Sioux Chief Type-A PEX tubing is listed and certified to applicable industry standards, including NSF/ANSI/CAN 14, NSF/ANSI/CAN 61, cNSFus-PW, ASTM F876, ASTM F877, ASTM F1807, ASTM F1960, and ASTM F2159.

ASTM F876 includes requirements for oxidative stability in potable chlorinated water applications. Under Section 6.9, PEX tubing intended for use with potable water must demonstrate a minimum extrapolated time-to-failure of 50 years:

Oxidative Stability in Potable Chlorinated Water Applications—PEX tubing intended for use in the transport of potable water shall have a minimum extrapolated time-to-Failure of 50 years and comply with the requirements for a first digit of '1' or higher in the PEX Tubing Material Designation Code when tested and evaluated in accordance with A1.3.

Based on test reports from the material supplier, the extrapolated time-to-failure achieved with Sioux Chief's current Type-A PEX resin formulation is **greater than 100 years** in oxidative stability for potable chlorinated water applications. This result doubles the 50-year minimum requirement in the standard and demonstrates superior performance in this important category, making it the best-performing resin for use in Type-A PEX tube production.



The information contained herein is believed to be accurate and reliable as of the date of publication but is subject to change without notice. The user is responsible for interpreting this information, determining its suitability for the intended application, and accepting responsibility for its application and use. In addition to any requirements expressly stated in the body of this bulletin, all Sioux Chief products must be installed and used in accordance with applicable plumbing codes, accepted industry practices, published installation instructions, and all applicable laws and regulations.