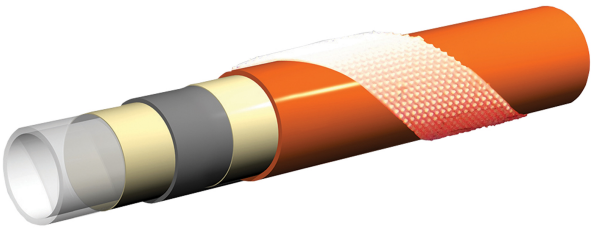
Product Data Sheet

3/31/2026

Heating Distribution (Plastic Pipes)

PexPenta Klett PE-Xc

Romania - Purmo



- **High durability.**
- **Oxygen diffusion barrier.**
- **Easy installation.**
- **Temperature resistance.**
- **Long-lasting.**

Description

PexPenta Klett PE-Xc pipes are constructed with high-density polyethylene and an electron-beam cross-linked structure. The 5-layer design includes an EVOH oxygen diffusion barrier protected between two layers of PE-Xc, providing excellent resistance to mechanical damage. These pipes ensure a secure, long-lasting installation and are easy to install with the Purmo Klettjet system. They meet industry standards DIN 4726 and DIN EN ISO 21003 and come with a 30-year guarantee.

Area of Application

PexPenta Klett PE-Xc is ideal for underfloor heating and radiator connections. Suitable for use in residential, commercial, and industrial applications. Its robust construction allows for high-temperature resistance up to 90°C and maximum operating pressure up to 10 bars.

Selection Criteria

For precise product selection, use our design service or refer to our detailed brochure for guidelines and specifications.

Basic User Instructions

Ensure installation on the Purmo Klettjet insulation for optimal performance. The PexPenta Klett PE-Xc pipe has a hook-and-loop fastening system, enabling quick and adjustable placement. No need for additional fixing materials. Maximum operating temperature is 90°C, and pressure should not exceed specified limits. Regularly inspect for any leakage or damage to maintain efficiency and safety. Avoid chemical exposure that can compromise material integrity.

Prescription text specifiers

PexPenta Klett PE-Xc is a high-density polyethylene heating pipe, cross-linked with electron beams. It features a 5-layer construction with an inner PE-Xc layer, adhesive layers, an EVOH oxygen diffusion barrier, and an outer PE-Xc layer. This pipe meets DIN 4726 and DIN EN ISO 21003 standards and is optimized for underfloor heating applications. Maximum operating conditions include a temperature limit of 90°C and pressure up to 10 bars. The 30-year guarantee ensures long-term reliability. Available in various diameters and lengths, it integrates seamlessly with the Purmo Klettjet insulation system for secure and efficient heating installations.

Warranty

Specification

Feature	Unit	Value
Etim Class		EC010225 - Multi-layered pipe, smooth
Weight	Kilogram (kg)	14.88, 29.76, 74.4
UV resistant		No
Halogen free		Yes
Flexible		Yes
Wall thickness	Millimetre (mm)	2
Glass-fibre reinforced		No
Water content	Litre per metre (l/m)	0.113
Number of layers		24, 5
Outer pipe diameter	Millimetre (mm)	16
Suitable for surface mounting		No
With heating cable		No
Max. medium temperature (momentarily)	Degrees celsius (°C)	110
Min. bending radius without tools	Millimetre (mm)	80
Max. operating pressure at max. medium temperature	Bar (bar)	8
Thickness intermediate layer	Millimetre (mm)	0.2
Min. bending radius	Millimetre (mm)	80
Expansion coefficient	Millimetre per metre Kelvin (mm/(m.K))	0.15
With mantle pipe		No
Pipe colour		Orange
Quality class inner layer		PE-RT II, PE-Xc
Quality class intermediate layer		Ethylene vinyl alcohol (EVOH)
Quality class outer layer		PE-RT II, PE-Xc
Wall roughness	Millimetre (mm)	0.007
Diffusion-proof		Yes
Max. operating pressure at 20 °C	Bar (bar)	10
Medium temperature (continuous)	Degrees celsius (°C)	5, 90
Nominal diameter		DN 16
With thermal insulation		No
Material inner layer		Plastic
Material intermediate layer		Plastic
Material outer layer		Plastic
System specific		No

Resources

Document Description	Document Type	Link

Items

Global Item Code	Item Description
FF3XC5K162012000	PURMO heating pipe Premium line PexPenta Klett PE-Xc 16 x 2mm, 120m ring
FF3XC5K162024000	PURMO heating pipe Premium line PexPenta Klett PE-Xc 16 x 2mm, 240m ring
FF3XC5K162060000	PURMO heating pipe Premium line PexPenta Klett PE-Xc 16 x 2mm, 600m ring