

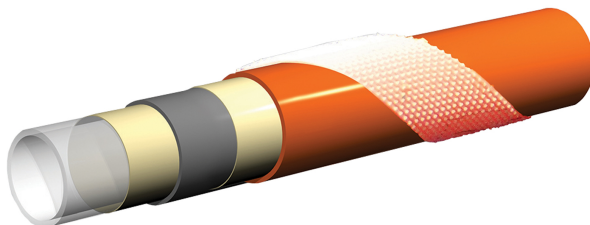
# Product Data Sheet

12/23/2025

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
Item depth	Millimetre (mm)	7.8E+215
Item weight	Kilogram (kg)	14.88, 29.76
Item height	Millimetre (mm)	2.4E+215
Item width	Millimetre (mm)	7.8E+215
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		13, 19, 24
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
Quality class intermediate layer		Ethylene vinyl alcohol (EVOH)
Quality class outer layer		PE-RT II
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

Feature	Unit	Value
Weight	Kilogram (kg)	74.4

# Resources

Document Description	Document Type	Link
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## 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