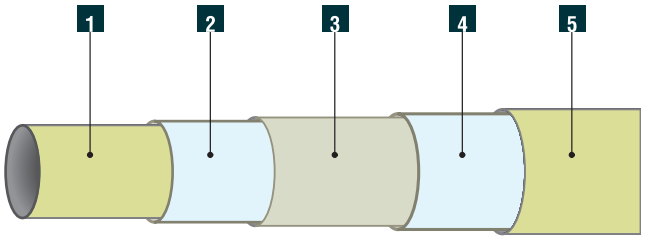
PE-Xc PENTA

EVOH OXYGEN BARRIER 5 LAYERS PIPE



SKZ Das Kunststoff-Zentrum

UNI EN ISO 21003-2

Components

1. Inner pipe in PE-Xc (cross-linked high density polyethylene)
2. Layer of adhesive connecting the inner pipe to the EVOH-oxygen barrier pipe
3. EVOH-oxygen barrier pipe
4. Layer of adhesive connecting the outer pipe to the EVOH-oxygen barrier pipe
5. Outer pipe in PE-Xc (cross-linked high density polyethylene)

CONSTRUCTION CHARACTERISTICS AND PERFORMANCE

The PE-Xc polyethylene pipe is crosslinked via an electronic method, and owing to the arrangement of the 5 layers, the EVOH oxygen barrier is protected from mechanical damage and, at the same time, the thickness of the inner PE-X layer is always equal to that of a 3-layer pipe, having the same size.
The several inspections and quality controls ensure maximum safety over time, as proven by the SKZ certification, accredited and certified institution in Europe for quality assurance monitoring for plastic material industrial sector.

COMPLIANCE WITH STANDARDS

The PE-XC PENTA EVOH 5-layers oxygen barrier pipe complies with the UNI EN ISO 21003-2 standard and is SKZ HR 3.2 certified.

CONDITIONS OF USE ACCORDING TO THE APPLICATION CLASSES IN COMPLIANCE WITH UNI EN ISO 21003-1 STANDARD (SEE TECHNICAL ATTACHMENTS).

EN

TECHNICAL CHARACTERISTICS

Application classes / Operating pressure (bar):
size 12x2: Cl. 4/10 bar - Cl. 5/10 bar
size 16x2: Cl. 4/10 bar - Cl. 5/8 bar
size 17x2: Cl. 4/8 bar - Cl. 5/8 bar
size 20x2: Cl. 4/8 bar - Cl. 5/6 bar
Oxygen permeability (DIN 4726):
<0.32 mg/(m²d) at 40 °C; <3.60 mg/(m²d) at 80 °C
Density: 940 kg/m³
Degree of cross-linking: ≥60%

Thermal conductivity: 0.41 W/mK
Average coefficient of linear expansion: 0.15 mm/m °C
Internal roughness: 7 μm
Water content: size 12x2: 0.05 l/m - size 16x2: 0.11 l/m
size 17x2: 0.133 l/m - size 20x2: 0.20 l/m

Application: heating systems (not suitable for sanitary systems).

Pipe regression curves, Pressure drop and Linear thermal expansion:
see Technical attachments section.

GP 2034

PE-Xc PENTA PIPE

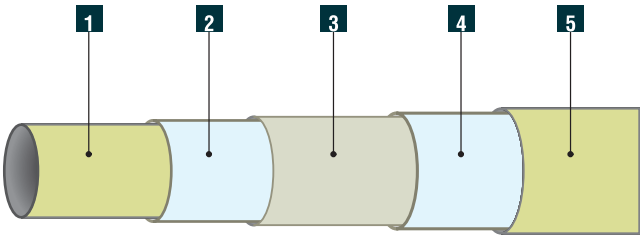
SKZ UNI EN ISO 21003-2

PE-Xc PENTA EVOH 5 layers crosslinked polyethylene pipe via electronic method equipped with EVOH oxygen barrier, complies with the UNI EN ISO 21003-2 standard and is SKZ HR 3.2 certified.

CODE	Size	m Pallet	N. Rotoli	Pack m
9518P001	12 x 2 mm	4320	18	240
9518P002	16 x 2 mm	2800	14	200
9518P003	16 x 2 mm	2880	12	240
9518P004	16 x 2 mm	2400	4	600
9518P005	17 x 2 mm	1920	8	240
9518P006	17 x 2 mm	2400	4	600
9518P007	20 x 2 mm	2000	4	500

PE-Xc

EVOH OXYGEN BARRIER PIPE



SKZ Das Kunststoff-Zentrum

EN ISO 15875-2

Components

1	Inner pipe in PE-Xc (cross-linked high density polyethylene)
2	Layer of adhesive connecting the inner pipe to the EVOH-oxygen barrier pipe
3	EVOH-oxygen barrier pipe
4	Layer of adhesive connecting the outer pipe to the EVOH-oxygen barrier pipe
5	Outer pipe in PE-Xc (cross-linked high density polyethylene)

CONSTRUCTION CHARACTERISTICS AND PERFORMANCE

The PE-Xc polyethylene pipe is crosslinked via an electronic method, and owing to the arrangement of the 5 layers, the EVOH oxygen barrier is protected from mechanical damage and, at the same time, the thickness of the inner PE-X layer is always equal to that of a 3-layer pipe, having the same size.
The several inspections and quality controls ensure maximum safety over time, as proven by the SKZ certification, accredited and certified institution in Europe for quality assurance monitoring for plastic material industrial sector.

COMPLIANCE WITH STANDARDS

The PE-Xc pipe with EVOH oxygen barrier complies with DIN 16892, DIN 16893, UNI EN ISO 15875-2 standards and SKZ certificate.

CONDITIONS OF USE ACCORDING TO THE APPLICATION CLASSES IN COMPLIANCE WITH UNI EN ISO 15875-1 STANDARD (SEE TECHNICAL ATTACHMENTS).

EN

TECHNICAL CHARACTERISTICS

Application classes / Operating pressure (bar):
Cl. 4/8 bar - Cl. 5/8 bar
Oxygen permeability (DIN 4726):
< 0.32 mg/(m²d) at 40 °C; < 3.60 mg/(m²d) at 80 °C
Density: 940 kg/m³
Degree of cross-linking: ≥60%
Thermal conductivity: 0.41 W/mK

Elastic modulus: 600-800 MPa
Elongation at break: 400-600%
Average coefficient of linear expansion: 0.15 mm/m °C
Internal roughness: 7 μm
Water content: 0.133 l/m

Application: heating systems (not suitable for sanitary systems).

Pipe regression curves, Pressure drop and Linear thermal expansion:
see Technical attachments section.

GP 2034
PE-Xc PIPE

Pipe in PE-Xc polyethylene, cross-linked with electronic system, equipped with EVOH oxygen barrier, complies with these requirements, satisfying the international standards DIN 16892, DIN 16893 and UNI EN ISO 15875-2 and SKZ certificate.

SKZ EN ISO 15875-2

Article available while stocks last.

CODE	Size	Pallet m	N° Rolls	Pack m
9518P977	17 x 2 mm	2400	12	200