

x-net 5-layer PE-Xc pipe 14 x 2 and 16 x 2



PE-Xc

- Polyethylene pipe cross-linked with electron beams
- 5-layer technology to protect the EVOH oxygen barrier layer
- Made in Germany

Technical data

	Standard	Unit	14 x 2	16 x 2
Product code				
120 m roll			SFRPE014012	SFRPE016012
240 m roll			SFRPE014024	SFRPE016024
600 m roll			SFRPE014060	SFRPE016060
1,000 m roll			SFRPE014100	
General pipe data				
Nominal outer diameter ¹⁾	DIN EN ISO 21003	mm	14	16
Nominal wall thickness ¹⁾	DIN EN ISO 21003	mm	2	2
Inner diameter		mm	10	12
Water content		l/m	0.079	0.113
Weight per metre of pipe without water		kg/m	0.071	0.091
Weight per metre of pipe with water		kg/m	0.150	0.204
Material properties				
Degree of cross-linking	DIN 16892	%	> 60	
Density	DIN EN ISO 1183	g/cm ³	0.94	
Elastic modulus at 20°C	DIN EN ISO 527-2	N/mm ²	600	
Tensile strength	DIN EN ISO 527-2	N/mm ²	23	
Elongation at break	DIN EN ISO 527-2	%	400	
Thermal longitudinal expansion coefficient 20°C	DIN 53752	mm/mK	0.14	
Pipe wall roughness	acc. to Prandtl-Colebrook	mm	0.007	
Thermal conductivity of pipe wall at 20°C	DIN 52612	W/mK	0.35	
Oxygen-tightness at 40°C	DIN 4726	mg/m ³ d	≤ 0.32	
Oxygen-tightness at 80°C	DIN 4726	mg/m ³ d	≤ 3.60	



DIN-Certco registration
3V200 MVR (P) and 3V375 MVR (P)

¹⁾ acc. to standard requirements, the writing, printed on the pipe, includes additional manufacturing dimensions in brackets. This is where the lower tolerance levels for outer diameters and wall thickness must be indicated.

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Processing				
Smallest bending radius 5xd	DIN 4726	mm	70	80
Preparation to hold fittings	Cut pipe ends square and deburr with an appropriate tool			
Short time malfunction temperature				
Permissible media	Heating water acc. to VDI 2035 and water-glycol-mixture (max. 30 % glycol)			
Application class	DIN EN ISO 21003		5	
Max. operating pressure	DIN EN ISO 21003	bar	6	
Max. operating temperature	DIN EN ISO 21003	°C	90	
Temperature during brief malfunction	DIN EN ISO 21003	°C	100	
Attention: do not operate both pressure and temperature at their maximum continuously at the same time!				
Pipe bundle lengths / Packaging / Storage				
Packed in special cartons		m	120	120
Packed in special cartons		m	240	240
Stretch foil		m	600	600
Stretch foil		m	1,000	–
Storage conditions acc. to DIN 4726: do not store outdoors, do not expose to direct sunlight				

Pressure loss diagram

