PE Systems

TTCX13110100

PE100 Polyethylene Pipe Metric DN110 SDR13.6 x 100 m Co-Ex White Telecommunications



Application

Used to protect Telecommincaitons cables

Features

- Lightweight
- Durable
- Long Service Life
- Environmentally Friendly
- Corrosion and Chemical Resistance

Technical Data

Product Properties

Material	Polyethylene
Colour	White coating
Approximate mass	265.157
Unprotected UV exposure	In excess of 15 Years (Refer PIPA POP 017)
End connection	Spigot / Spigot
Rating	SDR13.6

*For short term, intermittent exposure. Contact Iplex for further details

Product Dimensions

Minimum effective length	100000
Nominal size	110 mm
Mean pipe OD	110
Wall thickness	8.6mm

Jointing Details

Joint type	Electrofusion, compression, butt weld, mechanical
Minimum radius of pipe curvature	21 (x DN) Ref: PIPA POP202

Standards

Environmental Declarations and Standards

Product standard	Manufactured to the dimensions of AS/NZS 4130

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Material Properties

Mechanical

Density 'specific gravity'	0.95
Tensile yield strain (50 mm/min)	8 - 10%
Tensile modulus	900 MPa
Yield stress	25 MPa
Hardness shore D	63
Poissons ratio	0.4
Ring bending modulus (3 mins)	950 MPa
Apparent ring bending modulus (50 years)	260 MPa
Ultimate tensile strength	23 MPa
Compressive strength	32 MPa
Design stress	8 MPa
Maximum support spacing of pipe graded	1.50m
Maximum support spacing of pipe vertical	3.00 m (Reference AS/NZS 2033, applicable to above ground installations)

Thermal

Coefficient of thermal expansion	1.8×10^{-4}/°C
Thermal conductivity	0.38 $W \cdot m^{-1} \cdot K^{-1}$
Specific heat	1.9 $J \cdot kg^{-1} \cdot K^{-1}$
Vicat softening temperature	116°C
Allowable operating temperature - degrees	Refer Page 3_Table 2 , https://www.iplex.com.au/assets/Uploads/dc73cc0a04/POLIplex-PE-Pipes-Fittings-Technical-Guide.pdf

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Fire Resistance

Flammability	Supports combustion, will burn when sufficient heat and oxygen are provided
Ignitability - AS 1530*	13
Smoke development - AS 1530*	3
Spread of flame - AS 1530*	7
Heat evolved - AS 1530*	6

*AWTA test report number 7-558788-CV

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