PE Systems

EHCX13180M

PE100 Polyethylene Pipe Metric DN180 SDR13.6 x 12 m Co-Ex Orange Electrical

Application

Provides a secure pathway for electrical and communication cabling

Features

- Lightweight
- Durable
- Long service life
- Environmentally friendly
- Corrosion and chemical resistance

Technical Data

Product Properties

Material	Polyethylene
Colour	Orange coating
Approximate mass	84.37 kg
Unprotected UV exposure	2 years in accordance with AS/NZS 2033
End connection	Spigot / Spigot
Rating	SDR13.6

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

Product Dimensions

Minimum effective length	12000 mm
Nominal size	180 mm
Mean pipe OD	180.0 mm
Mean pipe ID	150.4 mm
Wall thickness	13.3 mm

Packaging Information

Crate quantity	11
Approximate crate mass	935 kg

Jointing Details

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

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Standards

Environmental Declarations and Standards

Product standard	Manufactured to the dimensions of AS/NZS 4130

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	2.20 m
Maximum support spacing of pipe vertical	4.40 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 7_Table 2.2 of the Iplex Polyethylene Technical Guide (v 1.2)

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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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