PE Systems

EHCX13140100

PE100 Polyethylene Pipe Metric DN140 SDR13.6 x 100 m Co-Ex Orange Electrical



Application

Used to protect electrical cables

Features

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

Technical Data

Product Properties

Material	Polyethylene
Colour	Orange coating
Approximate mass	427.893 kg
Unprotected UV exposure	2 years in accordance with AS/NZS 2033 yr
End connection	Spigot / Spigot
Rating	SDR13.6

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

Product Dimensions

Minimum effective length	100000 mm
Nominal size	140 mm
Mean pipe OD	140.0 mm
Mean pipe ID	117.0 mm
Wall thickness	10.3mm

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	1.70m
Maximum support spacing of pipe vertical	1.70 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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