

## PE Systems

# EHCX13200M

PE100 Polyethylene Pipe Metric DN200 SDR13.6 x 12 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        | 103.38 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 | 12000 mm |
| Nominal size             | 200 mm   |
| Mean pipe OD             | 200.0 mm |
| Mean pipe ID             | 167.4 mm |

### Packaging Information

|                |   |
|----------------|---|
| Crate quantity | 9 |
|----------------|---|

### 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   | 2.30 m                                                                   |
| Maximum support spacing of pipe vertical | 4.60 m (Reference AS/NZS 2033, applicable to above ground installations) |

## Thermal

|                                           |                                                                          |
|-------------------------------------------|--------------------------------------------------------------------------|
| Coefficient of thermal expansion          | $1.8 \times 10^{-4}/^{\circ}\text{C}$                                    |
| Thermal conductivity                      | $0.38 \text{ W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$                     |
| Specific heat                             | $1.9 \text{ J}\cdot\text{kg}^{-1}\cdot\text{K}^{-1}$                     |
| 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

Need help? | Merchants 1300 0 47539 | Civil 13 10 86

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