

PE Systems

# EHCX1340150

**PE100 Polyethylene Pipe Metric DN40 SDR13.6 x 150 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        | 57.703                                    |
| 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 | 150000 |
| Nominal size             | 40 mm  |
| Mean pipe OD             | 40     |

### Joining 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 |
|------------------|-----------------------------------------------|

## 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   | 0.85                                                                     |
| Maximum support spacing of pipe vertical | 1.70 m (Reference AS/NZS 2033, applicable to above ground installations) |

### Thermal

|                                  |                                                      |
|----------------------------------|------------------------------------------------------|
| Coefficient of thermal expansion | $1.8 \times 10^{-4}/^{\circ}\text{C}$                |
| 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                                                |

### 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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