

PP Sewer Systems

SewerMax® GR10225C

DN225 x 3m SN10 SewerMax Pipe RRJ



Application

Used to convey sewage in gravity sewer mains.

Features

- Australian made
- Lightweight
- High performance rubber ring joint
- Smooth internal bore
- Recyclable

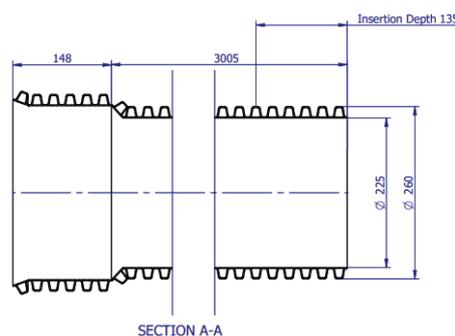
Technical Data

Product Properties

| | |
|--|---------------------------------|
| Material | Polypropylene (PP-B) |
| Colour | Grey with yellow internal liner |
| Nominal stiffness | SN10 |
| Nominal weight | 5kg/m |
| Maximum allowable operation temperature ¹ | 50°C |
| Unprotected UV exposure (years) | 2 years |

Product Dimensions²

| | |
|--------------------------|---------|
| Minimum effective length | 3000mm |
| Mean Pipe OD | 259mm |
| Mean Pipe ID | 225mm |
| Min socket length | 128mm |
| Socket OD (REF) | 305mm |
| Profile pitch | 25mm |
| Witness mark | 6th Rib |



¹For short term, intermittent exposure. Contact Iplex for further details

²Dimensions at 20°C

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Crate

| | |
|-----------------------------|-------|
| Crate quantity ³ | 8 |
| Approximate crate mass | 120kg |

³Pack configuration 4 pipes across by 2 high.

Pipe Joint Details

Pipe spigot and socket joint with rubber ring seal.

| | |
|---|-----------|
| Iplex rubber ring code | GERSEW225 |
| Joint type | RRJ |
| Rubber ring material | SBR |
| Average number of joints per kg – Lubricant | 17 |
| Minimum radius of pipe curvature | 86m |
| Maximum socket deflection | 2° |

Quality, Product Standards and Certifications

| | |
|---|---|
| Environmental declaration | Environmental Product Declaration (EPD) S-P-00714 |
| Product standard | AS/NZS 5065 "Polyethylene and polypropylene pipes & fittings for drainage & sewerage applications" |
| Quality standard | ISO9001: 2015 Quality Management System Certificate No QEC0037 |
| Structural design and installation standard | AS/NZS 2566.1 "Buried flexible pipelines - Part 1, Structural design" AS/NZS 2566.2 "Buried flexible pipelines - Part 2, Installation" AS/NZS 2033 "Design and Installation of Polyolefin pipe systems" |
| Product certification | WaterMARK WMKT20603 and StandardsMark SMKP20603 |
| WSAA appraisal | WSAA appraisal PA21S19 (Issue 2): SewerMAX and SewerMax+ Polypropylene Structured Wall Pipes for Non-Pressure Gravity Sewerage Applications |

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Material Properties

Mechanical

| | |
|--|--------------|
| Density 'Specific Gravity' | 0.9 |
| Tensile yield strain (50mm/min) | 8% |
| Ring bending stiffness | ≥10000 N/m/m |
| Tensile yield stress (50mm/min) | 31 MPa |
| Creep ratio | 3 |
| Hardness shore D | 60 |
| Poissons ratio | 0.45 |
| Min ring flexibility ⁴ | 30% |
| Ring bending modulus (3mins) | 1300 MPa |
| Apparent ring bending modulus (50 years) | 342 MPa |

⁴Ring flexibility is the minimum deflection required without buckling, cracking or permanent deformation.

Thermal

| | |
|----------------------------------|-------------------------|
| Coefficient of thermal expansion | 15x10 ⁻⁵ /°C |
| Thermal conductivity | 0.22 W/m.K |
| Specific heat | 1700 J/kg/°C |
| Vicat softening temperature | 157°C |

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

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