

PP Stormwater Systems

BlackMax® GR8900
DN900 x 6m SN8 BlackMax Pipe RRJ

Application

Used to convey rainwater or surface water. Suitable for stormwater drainage, road culverts, low head irrigation and stormwater retention.

Features

- Australian made
- Lightweight
- Operational efficiencies
- High performance rubber ring joint
- Resistant to root intrusion
- Smooth internal bore
- Recyclable

Technical Data
Product Properties

| | |
|--|----------------------------------|
| Material | Polypropylene (PP-B) |
| Colour | Black with yellow internal liner |
| Nominal stiffness | SN8 |
| Nominal weight | 43kg/m |
| Maximum allowable operation temperature ¹ | 50°C |
| Unprotected UV exposure (years) | 2 years |

Product Dimensions²

| | |
|--------------------------|---------|
| Minimum effective length | 6000mm |
| Maximum mean pipe OD | 1015mm |
| Minimum mean pipe ID | 871mm |
| Min socket length | 432mm |
| Socket OD (REF) | 1075mm |
| Profile pitch | 100mm |
| Witness mark | 5th Rib |

Crate

| | |
|-----------------------------|-------|
| Crate quantity ³ | 2 |
| Approximate crate mass | 617kg |

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

²Dimensions at 20°C

³Pack configuration 2 pipes across by 1 high.

PP Stormwater Systems

BlackMax® GR8900
DN900 x 6m SN8 BlackMax Pipe RRJ
Pipe Joint Details

Pipe spigot and socket joint with rubber ring seal.

| | |
|---|-----------|
| Iplex rubber ring code | GERSEW900 |
| Joint type | RRJ |
| Rubber ring material | SBR |
| Average number of joints per kg – lubricant | 3 |
| Minimum radius of pipe curvature | 86m |
| Maximum socket deflection | 1° |

Standards
Environmental Declarations and Standards

| | |
|---|---|
| Product standard | AS/NZS 5065 "Polyethylene and polypropylene pipes & fittings for drainage & sewerage applications" |
| Quality standard | Quality Management System ISO9001 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 WMKT21641 and StandardsMark SMKP21641 |

Material Properties
Mechanical

| | |
|--|-------------|
| Density 'Specific Gravity' | 0.9 |
| Tensile yield strain (50mm/min) | 8% |
| Ring bending stiffness | ≥8000 N/m/m |
| Tensile yield stress (50mm/min) | 31 MPa |
| Creep ratio | 3 |
| Hardness shore D | 60 |
| Poissons ratio | 0.45 |
| Min ring flexibility ¹ | 30% |
| Ring bending modulus (3mins) | 1300 MPa |
| Apparent ring bending modulus (50 years) | 342 MPa |

¹Ring flexibility is the minimum deflection required without buckling, cracking or permanent deformation.

PP Sewer Systems

BlackMax® GR8900

DN900 x 6m SN8 BlackMax Pipe RRJ

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 |