

PP Sewer Systems

SewerMax® GR10900C
DN900 x 2.65m 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	56kg/m
Maximum allowable operation temperature ¹	50°C
Unprotected UV exposure (years)	2 years

Product Dimensions²

Minimum effective length	2650mm
Maximum mean pipe OD	1015mm
Minimum mean pipe ID	871mm
Minimum socket length	432mm
Socket OD (REF)	1075mm
Profile pitch	100mm
Witness mark	5th Rib

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

²Dimensions at 20°C

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Crate

Crate quantity ³	2
Approximate crate mass	326kg

³Pack configuration 2 pipes across by 1 high.

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	172m
Maximum socket deflection	1°

Quality, Product Standards and Certifications

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 WMKT21641 and StandardsMark SMKP21641
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	$\geq 10000 \text{ N/m/m}$
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	$15 \times 10^{-5} / ^\circ\text{C}$
Thermal conductivity	0.22 W/m.K
Specific heat	1700 J/kg/°C
Vicat softening temperature	157°C

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