

PP Sewer Systems

SewerMax® GR101200C
DN1200 x 2.6m 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	113kg/m
Maximum allowable operation temperature ¹	50°C
Unprotected UV exposure (years)	2 years

Product Dimensions²

Minimum effective length	2600mm
Maximum mean pipe OD	1340mm
Minimum mean pipe ID	1160mm
Minimum socket length	476mm
Socket OD (REF)	1435mm
Profile pitch	133mm
Witness mark	4th Rib

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

²Dimensions at 20°C

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Crate

Crate quantity	1
Approximate crate mass	323kg

Pipe Joint Details

Pipe spigot and socket joint with rubber ring seal.

Iplex rubber ring code	GERSEW1200
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	≥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 ³	30%
Ring bending modulus (3mins)	1300 MPa
Apparent ring bending modulus (50 years)	342 MPa

³Ring 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

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