

PP Sewer Systems

SewerMax® GR10450C

DN450 x 3m SN10 SewerMax Pipe RRJ



Application

Used to convey sewage in gravity sewer mains.

Features

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

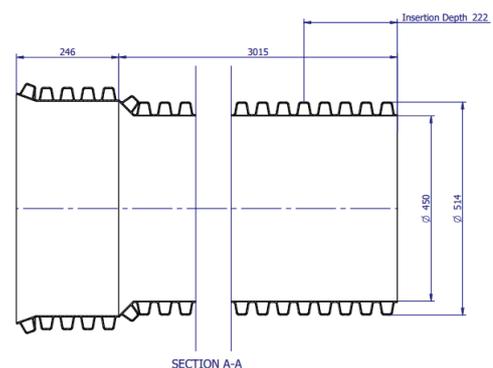
Technical Data

Product Properties

Material	Polypropylene (PP-B)
Colour	Grey with yellow internal liner
Nominal stiffness	SN10
Approximate mass	42kg/length
Maximum allowable operation temperature ¹	50°C
Unprotected UV exposure (years)	2 years

Product Dimensions

Minimum effective length	3000mm
Mean Pipe OD	514mm
Mean Pipe ID	448mm
Min socket length	210mm
Socket OD (REF)	603mm
Profile pitch	57mm
Witness mark	5th Rib



Crate

Crate quantity ²	2
Approximate crate mass	92kg

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

²Pack configuration 2 pipes across by 1 high.

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Pipe Joint Details

Pipe spigot and socket joint with rubber ring seal.

Iplex rubber ring code	GERSEW450
Joint type	RRJ
Rubber ring material	SBR
Average number of joints per kg – lubricant	8
Minimum radius of pipe curvature	86m
Maximum socket deflection	2°

Standards
Environmental Declarations and Standards

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	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 WMKA20603 and StandardsMark SMKP20603

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 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.

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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