

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
- High performance rubber ring joint
- Smooth internal bore
- Recyclable

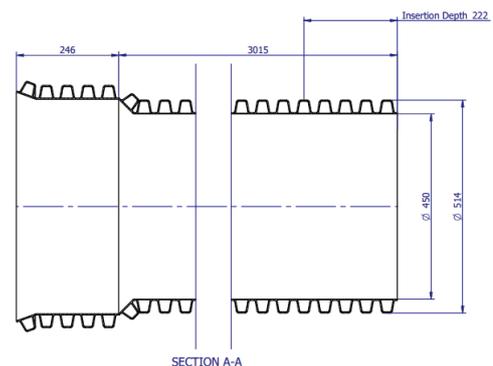
## Technical Data

### Product Properties

Material	Polypropylene (PP-B)
Colour	Grey with yellow internal liner
Nominal stiffness	SN10
Nominal weight	15kg/m
Maximum allowable operation temperature <sup>1</sup>	50°C
Unprotected UV exposure (years)	2 years

### Product Dimensions<sup>2</sup>

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



<sup>1</sup>For short term, intermittent exposure. Contact Iplex for further details

<sup>2</sup>Dimensions at 20°C

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**Crate**

Crate quantity <sup>3</sup>	2
Approximate crate mass	100kg

<sup>3</sup>Pack configuration 2 pipes across by 1 high.

**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°

**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 <sup>4</sup>	30%
Ring bending modulus (3mins)	1300 MPa
Apparent ring bending modulus (50 years)	342 MPa

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

### Thermal

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

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