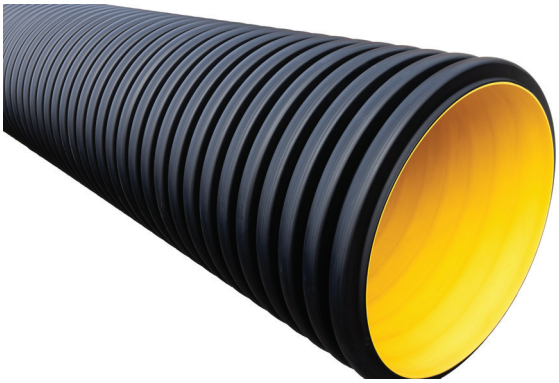
PP Stormwater Systems

BlackMax® GR81200

DN1200 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 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	Black with yellow internal liner
Nominal stiffness	SN8
Approximate mass	440kg/length
Maximum allowable operation temperature*	50°C
Unprotected UV exposure (years)	2 years

Product Dimensions

Minimum effective length	5950mm
Mean Pipe OD	1342mm
Mean Pipe ID	1170mm
Min socket length	476mm
Socket OD (REF)	1432mm
Profile pitch	133mm
Witness mark	4th Rib

Crate

Crate quantity*	1
Approximate crate mass	484kg

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

[2]Pack configuration 1 pipes across by 1 high.

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Pipe Joint Details

Pipe spiget 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	344mm
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

[1]Ring 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

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