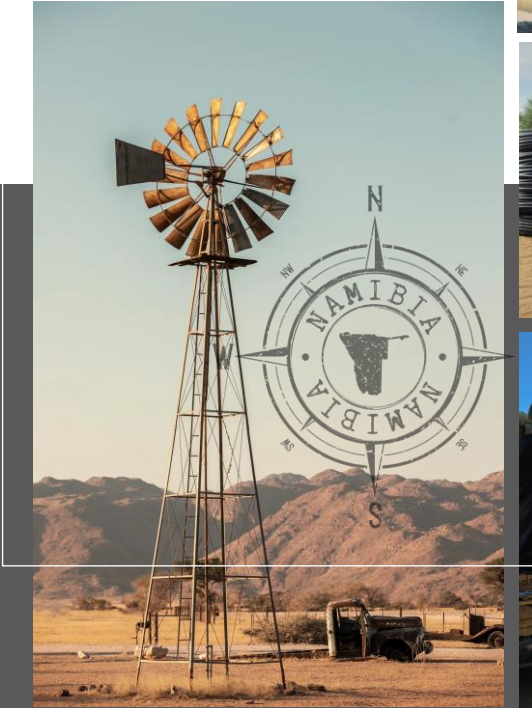




npc

NAMIBIA PLASTIC CONVERTERS



PRODUCT CATALOGUE

PIPE SOLUTIONS FOR

Water Mains · Irrigation · Sewer · Drain systems



Volume 2 - 2023

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ABOUT US

As a member of the Plastic Packaging group of companies and operating under the name Namibia Plastic Converters (NPC), we are proud to state our contribution as an economic developer by providing solutions to our country's unique infra-structural network of water mains, irrigation, sewer and drain systems.

Our commitment to constantly provide newly developed products, services, and technology, makes us a preferred supplier to most of the leading merchants, farmers and developers in Namibia. Major contracts throughout Namibia are testimony to our success in providing quality products and services.

Our fleet ensures our clients timeous deliveries to all corners of Namibia.

We have a PVC extrusion line that enables us to produce PVC pipe up to 315mm. This is a first for the group as well as for Namibia.

Looking after the environment, NPC added solar solutions to their factory roof and is generating 250KVa to assist with the electricity demand. This coupled with our closed loop water system used in the factory enables us to avoid unnecessary demand on resources.

Our close ties with Namibia Polymer Recyclers, also a member of Plastic Packaging group of companies, enables a continuous supply of recycled pipe material being used in all our AGRO Poly ranges and this ensures that we reduce, re use and recycle.



“
NPC offers a
Namibian
solution to all
infrastructural
irrigation needs
and we turn
your problem
into an
opportunity

DURAFLO PVC-u

pressure pipes

SANS:966-1:2019



CHARACTERISTICS

Duroflo™, unplasticised PVC (uPVC or PVC-U) pressure pipe is a tried and tested system in the water reticulation sector.

Duroflo™ pressure pipes are manufactured to the SABS 966 Part 1 specification, incorporating the traditional design stresses of 10 and 12.5 MPa.

APPLICATIONS

PVC pressure pipes are suitable for a wide range of pressure applications including:-

- Water supply
- Recycled water
- Irrigation
- Pressure sewerage

DURAFLO PVC-u

pressure pipes

SANS:966-1:2019



SPECIFICATIONS

NOM SIZE	O.D. MM		CLASS 4 WALL THICKNESS		MASS	CLASS 6 WALL THICKNESS		MASS	CLASS 9 WALL THICKNESS		MASS	CLASS 12 WALL THICKNESS		MASS	CLASS 16 WALL THICKNESS		MASS	LOE mm	
	MIN	MAX	MIN	MAX	kg/m	MIN	MAX	kg/m	MIN	MAX	kg/m	MIN	MAX	kg/m	MIN	MAX	kg/m		
16	16.00	16.20																	
20	20.00	20.20													1.50	1.80	0.133		
25	25.00	25.20										1.50	1.80	0.173	1.90	2.20	0.213		
32	32.00	32.20							1.50	1.80	0.327	1.80	2.10	0.266	2.40	2.80	0.345		
40	40.00	40.20				1.50	1.80	0.200	1.80	2.10	0.342	2.30	2.70	0.423	3.00	3.40	0.540	70	
50	50.00	50.20	1.50	1.80	0.360	1.80	2.10	0.433	2.20	2.60	0.517	2.80	3.20	0.642	3.70	4.20	0.833	70	
63	63.00	63.20	1.50	1.80	0.450	1.90	2.20	0.562	2.70	3.10	0.788	3.60	4.10	1.050	4.70	5.30	1.336	75	
75	75.00	75.20	1.50	1.80	0.533	2.20	2.60	0.775	3.20	3.70	1.113	4.30	4.90	1.475	5.60	6.30	1.885	80	
90	90.00	90.30	1.80	2.20	0.772	2.70	3.10	1.416	3.90	4.40	1.625	5.10	5.80	2.097	6.70	7.50	2.721	85	
110	110.00	110.30	2.20	2.60	1.150														
125	125.00	125.30	2.50	2.90	1.512														
160	160.00	160.40	3.20	3.70	2.492														
200	200.00	200.50	3.90	4.60	3.917														
250	250.00	250.60	4.90	5.60	5.991														
315	315.00	315.60	6.20	7.00	9.565														

NOM SIZE	O.D. mm		CLASS 6 WALL THICKNESS		MASS	CLASS 9 WALL THICKNESS		MASS	CLASS 12 WALL THICKNESS		MASS	CLASS 16 WALL THICKNESS		MASS	LOE mm
	MIN	MAX	MIN	MAX	kg/m	MIN	MAX	kg/m	MIN	MAX	kg/m	MIN	MAX	kg/m	
110	110.00	110.30	2.60	3.00	1.416	3.90	4.40	2.058	5.10	5.80	2.663	6.70	7.30	3.447	100
125	125.00	125.30	3.00	3.600	1.813	4.40	5.00	2.634	5.80	6.50	3.447	7.60	8.20	4.260	105
140	140.00	140.30	3.30	3.80	2.244	4.90	5.50	3.292	6.50	7.30	4.309	8.50	9.20	5.569	115
160	160.00	160.40	3.80	4.30	2.950	5.60	6.30	4.303	7.40	8.30	5.580	9.70	10.80	7.209	120
200	200.00	200.50	4.70	5.30	4.567	7.00	7.90	6.745	9.20	10.30	8.750	12.10	13.50	11.375	135
250	250.00	250.60	5.90	6.60	7.193	8.70	9.30	10.620	11.50	12.80	13.745	15.10	16.80	17.798	168
315	315.00	315.60	7.40	8.00	11.400	11.00	11.60	16.774	14.50	15.00	21.903	19.00	19.60	28.306	168

PVC-u SOLID WALL SEWER & DRAINAGE

pipes

FREEFLO SANS : 791 : 2014



CHARACTERISTICS

NPC uPVC Solid-Wall sewage and drainage pipes are performance proven for a broad range of applications for non-pressure drainage of sewer and surface water, where toughness, dimensional stability, stiffness and reliable joints are required.

- Available with plain ends or with integral rubber ring socket.
- Resilient and offers high resistance to impact to minimize site breakages and other failures.
- Affordable high-end installation
- Corrosion and chemical resistant
- Leak-tight joints
- Excellent flow rates

APPLICATIONS

u-PVC solid wall drainage and sewer pipes are intended for buried gravity drainage sewerage pipe systems for transportation of soil and waste discharge of domestic and industrial origin.

*Photo for illustration purposes only.
Colour of product according to SANS 791 standard.*

u-PVC SOLID WALL SEWER & DRAINAGE pipes

FREEFLO SANS : 791 : 2014



SPECIFICATIONS

NOM SIZE mm	O.D mm		OVALITY mm		NORMAL DUTY (CLASS 51)				MASS KG/m	HEAVY DUTY (CLASS 34)				MASS KG/m
	EXC		VAR	EXC	VAR		EXC			VAR		EXC		
	MIN	MAX	MAX	MAX	MIN	AVE	MIN	MAX		MIN	AVE	MIN	MAX	
110	110.0	110.3	1.40	2.80	2.20	2.50	2.20	2.80	1.143	3.00	3.15	3.00	3.50	1.546
160	160.0	160.4	2.00	4.00	3.20	3.36	3.20	3.80	2.517	4.70	4.90	4.70	5.40	3.515
200	200.0	200.4	2.80	4.80	3.90	4.10	3.90	4.50	3.683	5.90	6.20	5.90	6.70	5.513
250	250.0	250.8	3.00	6.00	5.00	5.25	5.00	5.70	5.900	7.40	7.80	8.30	8.30	8.530
315	315.0	316.0	3.80	7.60	6.20	6.44	6.20	6.68	9.130	9.20	9.52	9.20	10.40	13.550

PVC SOIL, VENTILATION and waste pipes

FREEFLO NEW SPEC SANS: 967 : 2018



CHARACTERISTICS

We offer PVC soil, ventilation and waste pipes for aboveground sanitation, conveying soil into underground drainage systems.

Our soil, ventilation and waste pipes are specially formulated for resistance to sunlight and long-term outdoor exposure.

Furthermore, PVC is unaffected by coastal or industrial atmospheres, or using domestic cleaning agents.

- White in color
- Corrosion resistance
- Excellent flow rates
- Tough and offers resistance to impact
- UV prevents weathering and oxidation
- Neat in appearance
- Years of service under normal operating conditions

APPLICATIONS

- Water plumbing & wastewater plumbing
- Waste handling & control
- Rainwater management
- Industrial
- Building infrastructure
- Household chemical handling

PVC SOIL, VENTILATION and waste pipes

FREEFLO NEW SPEC SANS: 967 : 2018



SPECIFICATIONS

NOM SIZE mm	O.D. MM		OVALITY MM		WALL THICKNESS				MASS KG / 6 METERS	MASS KG / 4 METERS
	EXC		VAR	EXC	VAR		EXC			
	MIN	MAX	MAX	MAX	MIN	AVE	MIN	MAX		
40	40.00	40.30	0.30	1.00	2.00	2.10	2.00	2.40	2.550	1.700
50	50.00	50.30	0.30	1.20	2.20	2.30	2.20	2.60	3.100	2.100
75	75.00	75.30	0.30	1.80	2.20	2.30	2.20	2.60	6.740	
110	110.00	110.30	0.30	2.80	3.20	3.36	3.20	3.80	10.000	
160	160.00	160.40	0.40	4.00	3.30	3.46	3.30	3.90	15.000	

CABLE DUCT PIPE

PVC

CHARACTERISTICS

PVC cable duct pipes provide a long-lasting, cost-effective solution for a huge range of applications.

This product is extremely chemically resistant to corrosive fumes, gasses and fluids. Seamless, large diameter extrusion guarantees smoothness, uniformity and dimensional stability. Its lightweight feature makes it ideal for fabrication, handling and installation.

- ✓ Strong and durable
- ✓ Rustproof and UV resistant
- ✓ Non-toxic
- ✓ Easy to install and lightweight
- ✓ Cost-effective
- ✓ Leak-resistant
- ✓ Maximum Flow

APPLICATIONS

For use in:-

- Factory and industrial applications
- Telephone cables
- High voltage underground cables
- Street and domestic power supplies
- TV & radio cables



CABLE DUCT PIPE

PVC

SPECIFICATIONS

NPC PIPE - BLACK

NOM SIZE	OUTSIDE DIAMETER MM		WALL THICKNESS mm			MASS KG / 6 METERS
	MIN	MAX	MIN	AVE	MAX	
mm						
50	50.00	50.30	1.50	1.65	1.80	2.4
75	75.00	75.30	1.60	1.75	1.90	4.2
110	110.00	110.30	2.20	2.50	2.80	7.2
160	160.00	160.40	3.20	3.45	3.70	15.0
200	200.00	200.40	3.90	4.25	4.60	22.4

CLASS 6

NOM SIZE	OUTSIDE DIAMETER mm		WALL THICKNESS MM		MASS KG / 6 METERS
	MIN	MAX	MIN	MAX	
mm					
110	110.00	110.30	2.60	3.00	8.140
160	160.00	160.40	3.80	4.30	17.400
200	200.00	200.50	4.70	5.30	26.900



HDPE PIPE

high density polyethylene
SANS 4427-2 : 2008



CHARACTERISTICS

CORROSION RESISTANCE

Since HDPE pipes do not rust, rot or decompose, it is not as susceptible to corrosion and therefore significantly extends the pipe's life.

EFFICIENT AND EFFECTIVE JOINTS

HDPE pipes are connected through heat-fusion welding, making them permanently leak-free

TRENCHLESS INSTALLATION POSSIBLE

This method allows for much less land disruption, making it a popular choice near rivers, lakes and busy roads.

ECO FRIENDLY

HDPE pipes have less of an environmental impact than other pipes

APPLICATIONS

HDPE pipes are used for carrying potable water, wastewater, hazardous waste and chemicals. It has long been a favored material in the oil, gas and mining industries and continues to increase in popularity.

HDPE PIPE

high density polyethylene

SANS 4427-2 : 2008



SPECIFICATIONS

NOMINAL SIZE	O.D. MM		CLASS 6 WALL THICKNESS		MASS	CLASS 10 WALL THICKNESS		MASS
	MIN	MAX	MIN	MAX	KG/m	MIN	MAX	KG/m
20	20.00	20.30				2.00	2.30	0.120
25	25.00	25.30				1.90	2.20	0.140
32	32.00	32.30	2.00	2.30	0.200			
40	40.00	40.40	2.40	2.54	0.290			

PE 100 OD MIN	SDR	SDR 26						SDR 21					SDR 17					SDR 13.6				
	PN	6						8					10					12.5				
	Oval	WALL THICKNESS			NOM	MASS	WALL THICKNESS			NOM	MASS	WALL THICKNESS			NOM	MASS	WALL THICKNESS			NOM	MASS	
MAX	mm	MIN	AVG	MAX	ID	Kg/m	MIN	AVG	MAX	ID	Kg/m	MIN	AVG	MAX	ID	Kg/m	MIN	AVG	MAX	ID	Kg/m	
16	16.30	1.20																				
20	20.30	1.20																				
25	25.30	1.20															2.00	2.15	2.30	20.90	0.15	
32	32.30	1.30										2.00	2.15	2.30	27.90	0.19	2.40	2.60	2.80	27.00	0.23	
40	40.30	1.40					2.00	2.15	2.30	35.9	0.25	2.40	2.60	2.80	35.00	0.29	3.00	3.25	3.50	33.70	0.36	
50	50.30	1.40	2.00	2.15	2.30	45.60	0.33	2.40	2.60	2.80	45.00	0.37	3.00	3.20	3.40	43.80	0.45	3.70	3.95	4.20	42.30	0.55
63	63.40	1.50	2.50	2.70	2.90	57.80	0.49	3.00	3.20	3.40	56.80	0.58	3.80	4.05	4.30	55.10	0.72	4.70	5.00	5.30	53.20	0.88
75	75.50	1.60	2.90	3.10	3.30	69.10	0.67	3.60	3.85	4.10	67.60	0.83	4.50	4.80	5.10	65.70	1.02	5.60	5.95	6.30	63.40	1.24
90	90.60	1.80	3.50	3.75	4.00	82.80	0.98	4.30	4.60	4.90	81.10	1.19	5.40	5.75	6.10	7.80	1.46	6.70	7.10	7.50	76.10	1.78
110	110.70	2.20	4.20	4.50	4.80	101.40	1.43	5.30	5.65	6.00	99.10	1.78	6.60	7.00	7.40	96.40	2.18	8.10	8.60	9.10	93.20	2.63

PE100	SDR	SDR 11						SDR 9					SDR 7.4				
	PN	16						20					25				
	Oval	WALL THICKNESS			NOM	MASS	WALL THICKNESS			NOM	MASS	WALL THICKNESS			NOM	MASS	
MIN	MAX	mm	MIN	AVG	MAX	ID	Kg/m	MIN	AVG	MAX	ID	Kg/m	MIN	AVG	MAX	ID	Kg/m
16	16.3	1.2						2.00	2.15	2.30	11.85	0.09	2.30	2.50	2.70	11.15	0.1
20	20.3	1.2	2.00	2.15	2.30	15.90	0.12	2.30	2.50	2.70	15.15	0.13	3.00	3.20	3.40	13.75	0.16
25	25.3	1.2	2.30	2.50	2.70	20.20	0.17	3.00	3.20	3.40	18.80	0.21	3.50	3.75	4.00	17.70	0.24
32	32.3	1.3	3.00	3.20	3.40	25.80	0.28	3.60	3.85	4.10	24.50	0.33	4.40	4.70	5.00	22.80	0.39
40	40.3	1.4	3.70	3.95	4.20	32.30	0.43	4.50	4.80	5.10	30.60	0.51	5.50	5.85	6.20	28.50	0.6
50	50.3	1.4	4.60	4.90	5.20	40.40	0.67	5.60	5.95	6.30	38.30	0.79	6.90	7.30	7.70	35.60	0.94
63	63.4	1.5	5.80	6.15	6.50	50.90	1.06	7.10	7.55	8.00	48.10	1.26	8.60	9.10	9.60	45.00	1.48
75	75.5	1.6	6.80	7.20	7.60	60.90	1.47	8.40	8.90	9.40	57.50	1.78	10.30	10.90	11.50	53.50	2.11
90	90.6	1.8	8.20	8.70	9.20	72.90	2.14	10.10	10.70	11.30	68.90	2.56	12.30	13.00	13.70	64.30	3.02
110	110.7	2.2	10.00	10.55	11.10	89.30	3.17	12.30	13.00	13.70	84.40	3.81	15.10	15.95	16.80	78.50	4.53

POLYETHYLENE LDPE PIPE

agriculture



CHARACTERISTICS

Low Density Polyethylene (LDPE) is a flexible and non-toxic form of pipe.

The main characteristics of LDPE are low temperature impact toughness, low-temperature impact resistance, good resistance to chemicals and good creep resistance.

- Durable and reliable
- Lightweight and flexible which makes it very easy to install
- More cost effective than other options available
- Resistant to corrosion and weather
- Superior flow
- Impact resistant
- Non-toxic
- Made from recycled materials and fully recyclable

APPLICATIONS

Excellent for use in:-

- ✓ Micro drip systems
- ✓ Mini sprinklers
- ✓ Drip lines
- ✓ Pop-up sprinkler systems
- ✓ LDPE is also suitable for Farming and irrigation



POLYETHYLENE LDPE PIPE

agriculture

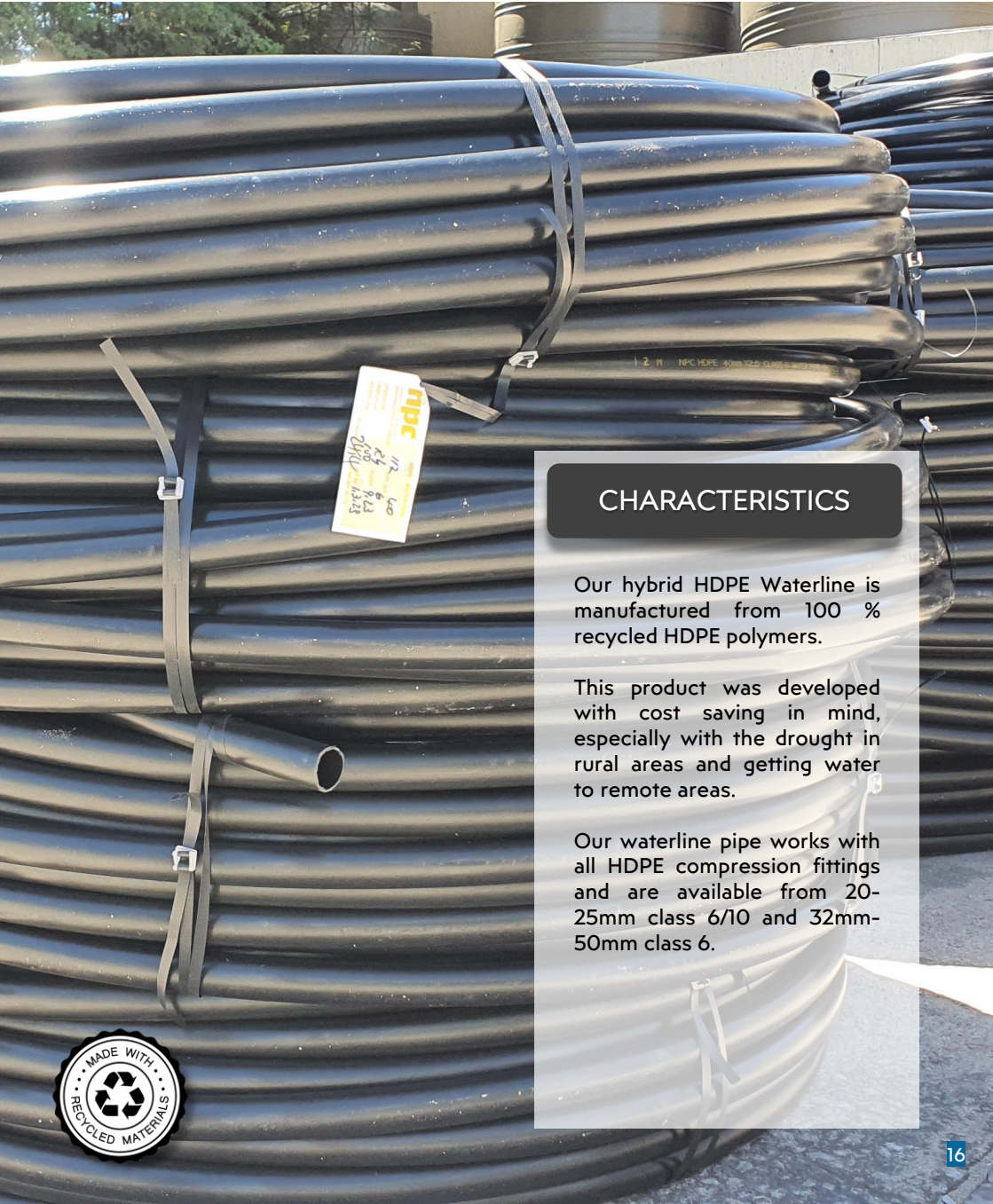
SPECIFICATIONS

NOMINAL		INSIDE DIAMETER			AVERAGE OD MM	WALL THICKNESS			MASS KG / METER	CONTROL AVERAGE	
mm	CLASS	MIN	AVE	MAX		MIN	AVE	MAX		LC MM	UC mm
15	3	15.70	15.85	16.00	18.30	1.30	1.40	1.50	0.075	1.33	1.43
	6				18.90	1.60	1.70	1.80	0.083	1.65	1.75
20	3	20.50	20.7	20.90	23.30	1.40	1.50	1.60	0.102	1.43	1.53
	6				24.30	1.90	2.00	2.10	0.133	1.95	2.05
25	3	26.50	26.75	27.00	29.70	1.60	1.70	1.80	0.150	1.65	1.75
	6				31.40	2.45	2.65	2.70	0.236	2.50	2.65
32	3	34.00	34.3	34.60	37.40	1.70	1.80	1.90	0.202	1.75	1.85
	6				39.40	2.70	2.82	2.95	0.335	2.75	2.90
40	3	40.00	40.4	40.80	44.00	2.00	2.10	2.20	0.270	2.05	2.15
	6				46.40	3.00	3.15	3.30	0.420	3.25	3.45
50	3	51.20	51.65	52.10	56.40	2.60	2.75	2.90	0.450	2.65	2.85
	6				59.20	4.00	4.20	4.40	0.720	4.10	4.30
65	3	61.80	62.35	62.90	68.00	3.10	3.25	3.40	0.640	3.15	3.30
	6				71.80	5.00	5.15	5.30	1.065	5.15	5.20
80	3	77.20	77.75	78.30	84.80	3.80	3.95	4.10	0.953	3.85	4.00
	6				89.60	6.20	6.40	6.60	1.640	6.25	6.50



NPC WATER

pipe



CHARACTERISTICS

Our hybrid HDPE Waterline is manufactured from 100 % recycled HDPE polymers.

This product was developed with cost saving in mind, especially with the drought in rural areas and getting water to remote areas.

Our waterline pipe works with all HDPE compression fittings and are available from 20-25mm class 6/10 and 32mm-50mm class 6.



NPC WATER

pipe

SPECIFICATIONS

NOMINAL SIZE	O.D. MM		CLASS 6 WALL THICKNESS		INNER DIAMETER	MASS	WEIGHT PER COIL	CLASS 10 WALL THICKNESS		INNER DIAMETER	MASS	WEIGHT PER COIL
	MIN	MAX	MIN	MAX				MIN	MAX			
20	20	20.30	1.40	1.60	17.0	0.95	9.5	1.80	2.00	16.0	0.11	11
25	25	25.30	1.50	1.70	21.6	0.125	12.5	1.80	2.10	20.8	0.15	15
32	32	32.30	1.80	2.10	28.0	0.20	20.0					
40	40	40.40	2.00	2.30	35.60	0.24	24.0					
50	50	50.50	2.50	2.80	44.5	0.38	38.0					





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