

ADVANTAGE

- Flexibility
- Chemical Resistance
- Butt-welding and Electro-welding connection
- Resistance to ground movement and end load
- Effective installation techniques
- High Impact Strength
- Abrasion Resistance
- High Flow Capacity
- Weather Resistance
- Reduced total cost of ownership
- Long lengths pipeline

STANDARD

ISO 4427-1-2007 Plastics Piping Systems – Polyethylene (PE) Pipes and fittings for water supply-part 1: General
ISO 4427-1-2007 Plastics piping systems – Polyethylene (PE) Pipes and Fittings for water supply-part 2: Pipes
ISO 4427-1-2007 Plastics Piping Systems – Polyethylene (PE) Pipes and Fittings for water supply-part 3: Fittings
EN 12001-2003 Plastics piping system for water supply- Polyethylene (PE)-part 1: General.
EN 12001-2003 Plastics piping system for water supply- Polyethylene (PE)-part 2: Pipes.
EN 12001-2003 Plastics piping system for water supply- Polyethylene (PE)-part 3: Fittings.
GB/T 13663-2000 Polyethylene Pipes for water supply
GB/T 13663 2-2005 Polyethylene (PE) Piping systems for water supply- Part 2: Fittings.

APPLICATION OF WEXAN HDPE PIPING SYSTEM

HVAC – Heating, Ventilation, and Air Conditioning



WEXAN HDPE piping system for GSHP (Ground Source Heat Pump) application

- Long-life service, good thermal conductivity
- Flexibility, long length in coils

Above Ground Pipelines



WEXAN HDPE piping system is widely used in above ground applications particularly in demanding conditions typical of mining and rural regions

- Ultra-violet (UV) resistance
- High Impact strength

Industrial & Chemical Pipelines



WEXAN HDPE pipe system can be installed in difficult to access kinds of industrial situations, which is because:

- A range of connection solutions
- Excellent chemical resistance

Pipelines for Ships



Now, WEXAN HDPE pipes and fittings are widely used in shipbuilding

- Lightweight, corrosion resistance to sea water
- A range of connection solutions in narrow space

WEXAN HDPE®

FEATURED PROJECTS



MAMA SITAS



THE GROVE by Rockwell Land Corp



THE MAVEN RESIDENCES by Capitol Commons



CHARM RESIDENCES by SMDC

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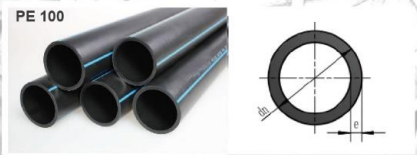


Mechanical Properties of PE100 Materials

Table : Typical Property of PE100 material

Property	Typical Value	Test Method
Density (Compound)	959 kg/m ³	ISO 1872-2/ISO 1183
Melt Flow Rate (190°C/5, 0 kg)	0.25 g/10min	ISO 1133
Tensile Modulus (1mm/min)	1100 MPa	ISO 572-2
Tensile Strain at Break	600%	ISO 527-2
Tensile Stress at Yield (50mm/min)	25 MPa	ISO 527-2
Carbon black content	> 2%	ASTM D 1603
Carbon black dispersion	<3	ISO 18553
Oxidation Induction Time (200°C)	> 20 min	EN 728
Resistance to rapid crack propagation (S4 test, Pc at 0°C, Test Pipe 250mm, SDR 11)	> 10 bar	ISO 13477
Resistance to slow crack growth (9.2 bar, 80°C)	> 1000 h	ISO 13479

* Typical values measured on the resin BorSafe HE3490-LS. These values should not be used for design purposes



Nominal Outside Diameter (dn)	Nominal Wall Thickness & Pressure (mm & Mpa)				
	SDR 26 (PN 6)	SDR 21 (PN8)	SDR 17 (PN 10)	SDR 13.6 (PN 12.5)	SDR 11 (PN 16)
20					2
25				2	2.3
32			2	2.4	3
40			2.4	3	3.7
50			3	3.7	4.6
63		3	3.8	4.7	5.8
75		3.6	4.5	5.6	6.8
90	3.5	4.3	5.4	6.7	8.2
110	4.2	5.3	6.6	8.1	10
125	4.8	6	7.4	9.2	11.4
140	5.4	6.7	8.3	10.3	12.7
160	6.2	7.7	9.5	11.8	14.6
180	6.9	8.6	10.7	13.3	16.4
200	7.7	9.6	11.9	14.7	18.2
225	8.6	10.8	13.4	16.6	20.5
250	9.6	11.9	14.8	18.4	22.7
280	10.7	13.4	16.6	20.6	25.4
315	12.1	15	18.7	23.2	28.6
355	13.6	16.9	21.1	26.1	32.2
400	15.3	19.1	23.7	29.4	36.3
450	17.2	21.5	26.7	33.1	40.9
500	19.1	23.9	29.7	36.8	45.4
560	21.4	26.7	33.2	41.2	50.8
630	24.1	30	37.4	46.3	57.2
710	27.2	33.9	42.1	52.2	64.5
800	30.6	38.1	47.4	58.8	72.6
900	34.4	42.9	53.3	66.2	
1000	38.2	47.7	59.3	72.5	
1200	45.9	57.2	67.9		

DESCRIPTION	DIMENSION	ARTICLE NO.
WEXAN HDPE PIPE		

	63mm x 5.8 x 5m	964 007 000
	75mm x 6.8 x 5m	965 007 000
	90mm x 8.2 x 5m	966 007 000
	110mm x 10 x 5m	967 007 000
	125mm x 11.4 x 5m	968 007 000
	160mm x 14.6 x 5m	969 007 000
	200mm x 18.2 x 5m	970 007 000
	315mm x 28.6 x 9m	974 007 000S
	400mm x 36.3 x 9m	976 007 000S
	450mm x 40.9 x 9m	977 007 000S

WEXAN HDPE BUTTFUSION SOCKET REDUCER		
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	75mm x 63mm	965 111 964
	90mm x 75mm	966 111 965
	110mm x 75mm	967 111 965
	110mm x 90mm	967 111 966
	125mm x 110mm	968 111 967
	125mm x 90mm	968 111 966
	160mm x 125mm	969 111 969
	200mm x 160mm	970 111 969
	315mm x 200mm	974 111 970

WEXAN HDPE BUTTFUSION ELBOW 45°		
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	63mm	964 220 100
	75mm	965 220 100
	90mm	966 220 100
	110mm	967 220 100
	125mm	968 220 100
	200mm	970 220 100

WEXAN HDPE BUTTFUSION REDUCING TEE		
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	90 x 75 x 90mm	966 330 965
	110 x 63 x 110mm	967 330 964
	110 x 75 x 110mm	967 330 965
	125 x 90 x 125mm	968 330 966
	125 x 63 x 125mm	968 330 964
	125 x 110 x 125mm	968 330 967
	160 x 90 x 160mm	969 330 266
	200 x 110 x 200mm	970 330 967
	200 x 125 x 200mm	970 330 968
	200 x 160 x 200mm	970 330 969

WEXAN HDPE BUTTFUSION ELBOW 90°		
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	63mm	964 200 100
	75mm	965 200 100
	90mm	966 200 100
	110mm	967 200 100
	125mm	968 200 100
	160mm	969 200 100
	200mm	970 200 100
	225mm	971 200 100
	250mm	972 200 100
	315mm	974 200 100

WEXAN HDPE END CAP		
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	110mm	967 500 000
	160mm	969 500 000
	200mm	970 500 000
	250mm	972 500 000
	315mm	974 500 000

WEXAN HDPE BUTTFUSION TEE UNIFORM		
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	75mm	967 320 000
	90mm	968 320 000
	110mm	969 320 000
	125mm	970 320 000
	160mm	971 320 000
	200mm	972 320 000
	225mm	974 320 000
	250mm	975 320 000
	315mm	977 320 000

DESCRIPTION	DIMENSION	ARTICLE NO.
WEXAN HDPE ELECTROFUSION COUPLER		

	125mm	968 100 000
	160mm	969 100 000
	200mm	970 100 000
	225mm	971 000 000
	250mm	972 100 000

WEXAN HDPE ELECTROFUSION ELBOW 45°		
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	110mm	967 220 000
	125mm	968 220 000
	160mm	969 220 000
	200mm	970 220 000

WEXAN HDPE ELECTROFUSION ELBOW 90°		
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	110mm	967 200 000
	125mm	968 200 000
	160mm	969 200 000
	200mm	970 200 000
	250mm	972 200 000

WEXAN HDPE BUTTFUSION STUB END FLANGE ADAPTER		
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	125mm	968 800 000
	160mm	969 800 000
	200mm	970 800 000
	250mm	972 800 000
	315mm	974 800 000

WEXAN HDPE ELECTROFUSION SOCKET REDUCER		
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	125mm x 110mm	968110267
	160mm x 110mm	969110267

WEXAN HDPE ELECTROFUSION TEE		
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	125mm	969 310 267
	160mm	969 310 268
	200mm	970 310 269
	250mm	972 310 269
	315mm	974 310 270

WEXAN HDPE ELECTROFUSION TEE REDUCER		
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	160mm x 110mm x 160mm	969 310 267
	160mm x 125mm x 160mm	969 310 268
	200mm x 160mm x 200mm	970 310 269
	250mm x 160mm x 250mm	972 310 269
	315mm x 200mm x 315mm	974 310 270

WEXAN HDPE STEEL FLANGE PLATE w/ PE		
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	63mm	964 600 000
	75mm	965 600 000
	90mm	966 600 000
	110mm	967 600 000
	125mm	968 600 000
	200mm	970 600 000
	250mm	972 600 000
	315mm	974 600 000

BUTTWELDING TOOLS-HDPE (50-160mm)	
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BUTTWELDING TOOLS-HDPE (90-250mm)	
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ELECTROFUSION MACHINE	
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