

# Up To Date Corporation Limited

## HDPE Double-wall Corrugation Pipe Introduction



HDPE Double-wall Corrugation Pipe

### Physical property of pipes

Item	Unit	Requirement
Hoop stress (SN4)	KN/m <sup>2</sup>	≥4
Hoop stress (SN8)	KN/m <sup>2</sup>	≥8
Impact strength		TIR ≤ 10 %
Ring elasticity		The test sample is smooth, without reversed flexure, breakage and divided of the walls-thickness
Oven test		No blebs, peeling and crack
Connecting seal test		No breakage and leakage
Creep ratio	%	≤4

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### Categories of pipes (ring stiffness)

Nominal Ring stiffness rate      Unit: KN/m<sup>2</sup>

Rate	SN2	SN4	( SN6.3 )	SN8	( SN12.5 )	SN16
Ring stiffness	2	4	( 6.3 )	8	12.5	( 16 )

Note: the pipes is limited to be SN2 (de ≥ 500mm), the figure in the bracket is not preferred.

## Products Specification

Both DN/OD and DN/ID can stand for the size of pipes.

Nominal inner diameter (DN/ID)	Average outer diameter	Virtual length
Φ 300	Φ 341 ± 2.0	6000
Φ 400	Φ 445 ± 2.5	6000
Φ 500	Φ 563 ± 3.0	6000
Φ 600	Φ 672 ± 3.5	6000
Φ 710	Φ 800 ± 4.0	6000

The general length of pipes is 6m, but the other length can be made on the client' s request.

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## Physical and chemical properties of pipe

Item	Property	Unit	Technical requirement
Physical property	Density	g/cm <sup>3</sup>	0.941 □ 0.965
	Refraction coefficient	nD	1.54
	Water absorption property	%	< 0.01
Mechanical property	Tensile strength	MPa	20–35
	Breaking elongation	%	≥ 350
	Pressure resistance strength	MPa	18–25
	Bending strength	MPa	25–40
Thermal property	Elastic modulus	MPa	≥ 800
	Heat expansion coefficient	10 <sup>-5</sup> /℃	11–16
	Melt point	℃	131
	Softening temperature	℃	126
	Brittle temperature	℃	- 70
	Successive temperature	℃	≤ 60