



HDPE Strengthened Double-wall Corrugation Pipe

Kingbull HDPE strengthened double-wall corrugation pipe is supposed to do many tests, such as melt flow rate, mixing by twin wheel mixer, vulcanizing press, differential thermal analysis, tensile test, anti-environmental stress cracking tensile test and so on to ensure the physical performance of the pipe

- ◎ Control the process ability of the raw material by testing melt index
- ◎ Control the toughness by testing elongation at break
- ◎ Control the ring stiffness by testing elastic modulus and tensile strength
- ◎ Control weatherability by testing oxidation induction time(OIT)

The Advantages of Kingbull HDPE Strengthened Double-wall Corrugation Pipe

1. It use high class raw material to ensure each property of the pipe

- ◎ Control the density and melt index to ensure the mechanical property and processability
- ◎ Control the elongation at break to ensure the toughness and increase the ring compliance
- ◎ Control the elastic modulus and tensile strength to ensure the ring stiffness of the pipe
- ◎ Control the OIT to ensure the weatherability



2. Advanced Horizontal type moulding machine

- ◎ High production efficiency
- ◎ Equipment runs at a constant speed to ensure a stable size, which is very important for sealing.

3. Optimize structural design of the product

- ◎ The design of peaking gives consideration to ring stiffness, ring compliance and peak stability



Pipe Specification

Unit:mm

Nominal inner Diameter Dn/ID	Tolerance	outer Diameter	deviation	Min Wall thickness	Min inner Diameter	Min socket depth
225	+4 -5	255	±3	≥1.7	≥258	≥64
300	+5 -6	330	±3	≥2.0	≥342	≥64
400	+8 -8	456	±5	≥2.5	≥461	≥74
500	+9 -10	572	±5	≥3.0	≥577	≥85
600	+10 -12	690	±6	≥3.5	≥696	≥96
800	+11 -15	925	±6	≥4.5	≥931	≥118

Notice: Valid length of pipe is 6 meter with socket

Ring stiffness

Unit: KN/m²

Level	SN4	SN8	SN10
Ring stiffness	≥4	≥8	≥10

Physical property

Items	Requirements		
Ring stiffness KN/M	SN4	SN8	SN10
	≥4	≥8	≥10
Impact strength (TIR)	≤10%		
Ring compliance	should be smooth, no reverse, bending, no crack		
Oven Test	No delamination, No crack		
Creep rate	≤4		
Joint sealing Test	0.05Mpa pressure for 15 Min, no leakage		