

#### 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
- ©Control the toughness by testing elongation at break
- $\ensuremath{\mathbb{O}}$  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

 $\ensuremath{ \odot}$  Control the elongation at break to ensure the toughness and increase the ring compliance

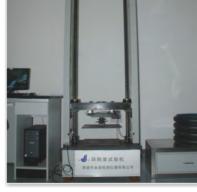
 $\hfill \odot$  Control the elastic modulus and tensile strength to ensure the ring stiffness of the pipe

©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. Optimze 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	SN4	SN8	SN10		
KN/M	≥4	≥8	≥10		
Impact strength (TIR)	≤10%				
Ring comliance	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				

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