5DRAGON
Construction Corporation

FOR INQUIRIES

5dragonconstruction.0@gmail.com www.5dragonconstructionfb.com.ph

5DRAGON
Construction Corporation

PVC-O PIPES

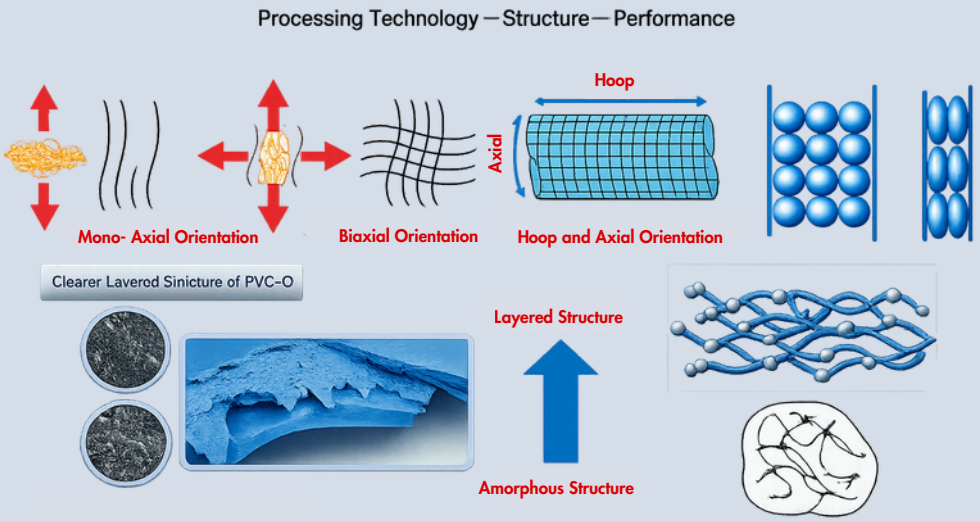
BUILT TOUGH FOR EVERYDAY FLOW



PVC-O PIPES

WHAT IS PVC-O PIPE?

PVC-O stands for “oriented” PVC pipe. Using advanced technology, its molecular structure is strengthened to deliver higher durability, better impact resistance, and longer-lasting performance, making it a breakthrough in modern plastic piping systems.







PRODUCT CHARACTERISTICS

HIGH IMPACT RESISTANCE

The biaxial orientation structure of PVC-O pipes provides exceptional impact resistance. These pipes can deform up to 100% without cracking or breaking, helping reduce damage during loading and unloading, installation, water pressure testing, and daily operations caused by external impacts.





PVC-O 500 PIPE

Nominal Pressure (bar)			PN12.5		PN16		PN20		PN25	
Nominal Diameter (DN)	Outside Diameter (OD)		Inside Diameter (ID)	Wall Thickness (e)	Inside Diameter (ID)	Wall Thickness (e)	Inside Diameter (ID)	Wall Thickness (e)	Inside Diameter (ID)	Wall Thickness (e)
	min.	max.	average	min.	average	min.	average	min.	average	min.
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
90	90.0	90.3	-	-	84.0	2.0	84.0	2.5	82.2	3.1
110	110.0	110.4	104.4	2.2	104.0	2.4	103.2	3.1	101.4	3.8
125	125.0	125.4	118.8	2.5	117.8	2.8	117.0	3.5	115.2	4.3
140	140.0	140.5	133.0	2.8	132.4	3.1	131.2	3.9	129.2	4.8
160	160.0	160.5	152.0	3.2	151.4	3.5	150.0	4.4	147.6	5.5
200	200.0	200.6	190.0	4.0	189.2	4.4	187.4	5.5	184.4	6.9
225	225.0	225.7	213.6	4.5	212.8	5.0	210.8	6.2	207.4	7.7
250	250.0	250.8	237.4	5.0	236.4	5.5	234.2	6.9	230.6	8.6
315	315.0	316.0	299.2	6.3	298.0	6.9	295.2	8.7	290.6	10.8
355	355.0	356.1	337.4	7.1	336.0	7.8	332.4	9.8	327.2	12.2
400	400.0	401.2	379.8	8.0	378.4	8.8	374.8	11.0	369.0	13.7
450	450.0	451.4	427.6	8.9	426.0	9.9	421.4	12.4	415.0	15.4
500	500.0	501.5	474.6	9.9	472.8	11.0	468.6	13.7	461.2	17.1
630	630.0	631.9	597.8	12.6	595.8	13.8	590.4	17.3	581.0	21.6
710	710.0	712.0	674.8	14.2	671.4	15.4	665.6	19.2	654.6	24.4
800	800.0	802.0	760.4	16.3	757.8	17.4	750.4	21.6	-	-

ANTI FATIGUE

The layered molecular structure of PVC-O pipes makes them highly resistant to gaps, cracks, and surface damage. This advanced design helps prevent both rapid and gradual cracking, ensuring safer pipeline construction and operation while extending the pipe's overall service life.

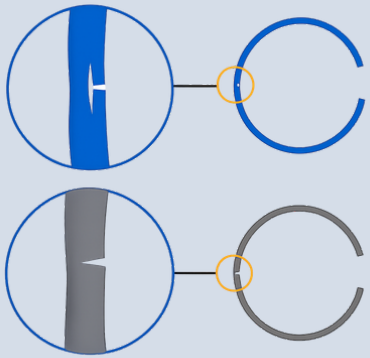






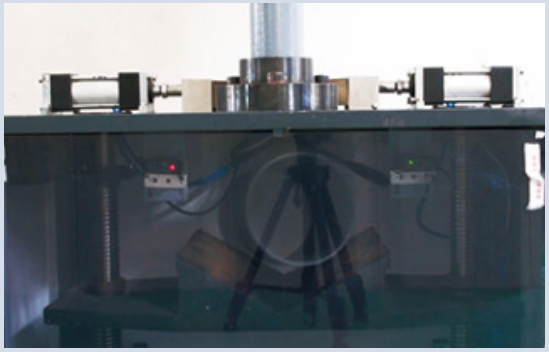






LOW TEMPERATURE RESISTANCE

PVC-O pipes maintain excellent impact resistance even under extremely cold conditions of up to -40°C. They can also be safely installed in temperatures as low as -25°C, allowing wider application in colder environments while extending the pipeline construction season.



RING STRESS

When PVC-O pipes are stretched in the circumferential (tangential) direction, they demonstrate a stress-strain performance comparable to metal materials. This process significantly enhances their circumferential strength—up to twice their original capacity—allowing them to handle working pressures of 1.0, 1.25, 1.6, 2.0, 2.5 MPa, and even higher pressure ratings.





ANTI FATIGUE

The layered molecular structure of PVC-O pipes makes them highly resistant to gaps, cracks, and surface damage. This advanced design helps prevent both rapid and gradual cracking, ensuring safer pipeline construction and operation while extending the pipe's overall service life.

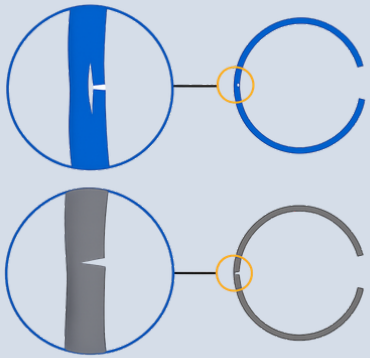






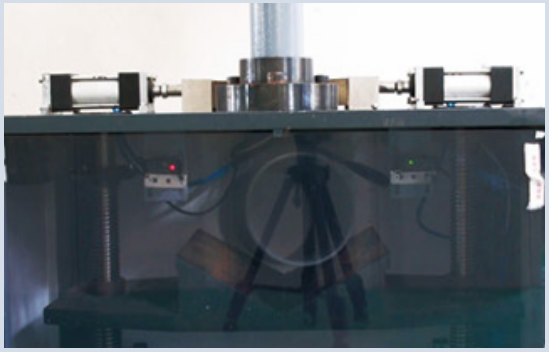






LOW TEMPERATURE RESISTANCE

PVC-O pipes maintain excellent impact resistance even under extremely cold conditions of up to -40°C. They can also be safely installed in temperatures as low as -25°C, allowing wider application in colder environments while extending the pipeline construction season.



RING STRESS

When PVC-O pipes are stretched in the circumferential (tangential) direction, they demonstrate a stress-strain performance comparable to metal materials. This process significantly enhances their circumferential strength—up to twice their original capacity—allowing them to handle working pressures of 1.0, 1.25, 1.6, 2.0, 2.5 MPa, and even higher pressure ratings.



