



HDPE 100 RC Pipes

Brochure



A large industrial machine used for producing plastic pipes. It features a long horizontal extrusion line with various rollers and guides. Above the line, there are hoppers for raw materials and control panels with digital displays. The machine is complex, with many pipes, valves, and electrical connections. The background is a bright yellow wall.

AKANSU GROUP founded in 1915 and operates in three different sectors.

AKANSU GROUP started its business life in 1915 with the sale of glass under the brand name of AKANSU GLASS brand.

AKANSU GLASS, the leading company in its sector, has a wide range of products to meet the demands of the market.

In 1996, it started to produce plastic window and door profile systems under the brand of AKANSU PROFILE. It has successfully completed many prestigious housing projects with its dealer networks in Turkey and abroad.

In 2006, it started the production of infrastructure plastic pipes with the AKANSU PIPE brand. AKANSU PIPE, which continues its investments rapidly, completed the investment of a equipped with the latest technology new production facility with an area of 100,000 m² in 2017. With the investment it has put into operation, it has become one of the factories with the highest production capacity in Turkey and Europe. In 2018, it started the production of superstructure plastic pipes and fittings.

AKANSU PIPE manufactures infrastructure and superstructure plastic product groups with the latest technology and full automation production techniques. AKANSU PIPE, which has an accredited and independent testing laboratory within its structure, is also a brand that has international quality certificates and is approved by institutions of many countries.

AKANSU PIPE has successfully completed the production and sale of many prestigious infrastructure and superstructure projects at home and abroad.

Its purpose is to put on the market products that provide quality and customer satisfaction by following new technologies in developing and changing world.



THE ADVANTAGES OF HDPE 100 RC PIPES

- Long-lasting, rustproof, non-decaying, high strength and corrosion resistant.
- Good abrasion resistance.
- High resistance to slow crack growth (SCG).
- Easy to carry and easy to assemble.
- High chemical resistance.
- Highly resistant to sunlight. (Only Black Pipe)
- Good resistance to point loads (e.g. stones, fragments).
- Non-leaking under pressure.
- Suitable for trenchless pipe-laying methods.
- Optimal choice for pipe-laying without sand embedding and backfill.
- Provides full assembly compatibility with classic HDPE pipes.
- Homogeneous welding connection eliminates fluid network water loss.
- High structural resistance to mechanical impacts.
- Excellent earthquake and landslide zone survivability over PVC and metal alternatives due to 350% flexibility.

THE USAGE AREAS OF HDPE 100 RC PIPES

- Drinking water networks
- Irrigation systems
- Industrial waste and chemical transport systems
- Wastewater and drainage systems
- Cooling water lines
- Deep sea discharge installations
- Cable protection systems
- Sewerage infrastructure networks

PRODUCTION TYPES

- Type-3 Production for 2 layers are between DN 110mm and 400mm
- Type-2 Production for 3 layers are between DN 20mm and 63mm
- Type-2 Production for 2 layers are between DN 110mm and 400mm
- Type-1 Production for 1 layer are between DN 20mm and 800mm

LOGISTICS & MANUFACTURING SPECIFICATION

Our products are manufactured in standard straight lengths within the diameter range of DN 20mm to DN 800mm. Upon request, they can also be delivered in coiled (bobbin) configurations within the diameter range of DN 20mm to DN 125mm. Furthermore, tailor-made production in custom lengths is available to meet the specific requirements of your projects.



HDPE 100 PIPES - TS EN 12201-2+A1

SDR 41 PN 4 ATM		SDR 33 PN 5 ATM		SDR 26 PN 6 ATM		SDR 21 PN 8 ATM		SDR 17 PN 10 ATM		SDR 13,6 PN 12,5 ATM		SDR 11 PN 16 ATM		SDR 9 PN 20 ATM		SDR 7,4 PN 25 ATM		SDR 6 PN 32 ATM	
DN (mm)	S (mm)	DN (mm)	S (mm)	DN (mm)	S (mm)	DN (mm)	S (mm)	DN (mm)	S (mm)	DN (mm)	S (mm)	DN (mm)	S (mm)	DN (mm)	S (mm)	DN (mm)	S (mm)	DN (mm)	S (mm)
20		20		20		20		20		20		20		20		20		20	
25		25		25		25		25		25		25		25		25		25	
32		32		32		32		32	2,00	32	2,30	32	3,00	32	3,60	32	4,40	32	5,40
40		40		40		40		40	2,40	40	3,00	40	3,70	40	4,50	40	5,50	40	6,70
50		50		50	1,80	50	2,40	50	3,00	50	3,70	50	4,60	50	5,60	50	6,90	50	8,30
63		63	2,00	63	2,40	63	3,00	63	3,80	63	4,70	63	5,80	63	7,10	63	8,60	63	10,50
75		75	2,30	75	2,70	75	3,60	75	4,50	75	5,60	75	6,80	75	8,40	75	10,30	75	12,50
90	2,30	90	2,80	90	3,30	90	4,30	90	5,40	90	6,70	90	8,20	90	10,10	90	12,30	90	15,00
110	2,70	110	3,40	110	4,00	110	5,30	110	6,60	110	8,10	110	10,00	110	12,30	110	15,10	110	18,30
125	2,50	125	3,90	125	4,50	125	6,00	125	7,40	125	9,20	125	11,40	125	14,00	125	17,10	125	20,80
140	3,50	140	4,30	140	5,10	140	6,70	140	8,30	140	10,30	140	12,70	140	15,70	140	19,20	140	23,30
160	4,00	160	4,90	160	5,80	160	7,70	160	9,50	160	11,80	160	14,60	160	17,90	160	21,90	160	26,60
180	4,40	180	5,50	180	6,50	180	8,60	180	10,70	180	13,30	180	16,40	180	20,10	180	24,60	180	29,90
200	4,90	200	6,20	200	7,20	200	9,60	200	11,90	200	14,70	200	18,20	200	22,40	200	27,40	200	33,20
225	5,50	225	6,90	225	8,20	225	10,80	225	13,40	225	16,60	225	20,50	225	25,20	225	30,80	225	37,40
250	6,20	250	7,70	250	9,10	250	11,90	250	14,80	250	18,40	250	22,70	250	27,90	250	34,20	250	41,50
280	6,90	280	8,60	280	10,10	280	13,40	280	16,60	280	20,60	280	25,40	280	31,30	280	38,30	280	46,50
315	7,70	315	9,70	315	11,40	315	15,00	315	18,70	315	23,20	315	28,60	315	35,20	315	43,10	315	52,30
355	8,70	355	10,90	355	12,90	355	16,90	355	21,10	355	26,10	355	32,20	355	39,70	355	48,50	355	59,20
400	9,80	400	12,30	400	14,50	400	19,10	400	23,70	400	29,40	400	36,30	400	44,70	400	54,70	400	66,70
450	11,00	450	13,80	450	16,30	450	21,50	450	26,70	450	33,10	450	40,90	450	50,30	450	61,50	450	
500	12,30	500	15,30	500	18,10	500	23,90	500	29,70	500	36,80	500	45,40	500	55,80	500		500	
560	13,70	560	17,20	560	20,30	560	26,70	560	33,20	560	41,20	560	50,80	560	62,20	560		560	
630	15,40	630	19,30	630	22,80	630	30,00	630	37,40	630	46,30	630	57,20	630		630		630	
710	17,40	710	21,80	710	25,70	710	33,90	710	42,10	710	52,20	710	64,50	710		710		710	
800	19,60	800	24,50	800	29,00	800	38,10	800	47,40	800	58,80	800	72,60	800		800		800	

- PN: Nominal Pressure
- DN: Diameter Nominal
- SDR: Standard Diamention Rate
- S: Pipe Thickness
- DN 20mm to 110mm (included) L=100m coil done.

FACTORY

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