

PE 63 / 80 / 100

HDPE Pressure Pipes

HDPE pressure pipes to IS 4984 in PE 63, PE 80 and PE 100 grades — extruded at 300 kilograms an hour for irrigation mains, water supply and industrial conveyance.

GRADES

PE 63, 80, 100

OUTPUT

200 tonnes a month

STANDARD

IS 4984


HDPE pipe extrusion line

Corrosion-free conveyance.

HDPE extended the same extrusion discipline we had built for cable into water infrastructure. The appeal is simple: it does not corrode, it does not scale, and jointed correctly it stays leak-free for decades. For buried irrigation networks that matters far more than initial cost.

The grade decision is the one worth understanding. For the same pressure class, a higher PE grade needs a thinner wall — at OD 110 and PN 10, PE 63 needs 12.3 mm, PE 80 needs 10.0 mm and PE 100 needs 8.1 mm. That is roughly a third less material for the same duty, which changes both the price and the handling weight.

200 ton / month

Pressure pipe output at 300 kg per hour.

PE 63 / 80 / 100

All three grades, PN 2.5 to PN 20.

OD 20 to 630 mm

Full IS 4984 diameter range.

AGRICULTURE

Irrigation networks

Mains and sub-mains feeding drip and sprinkler systems.

MUNICIPAL

Water supply

Rural and small-town distribution networks.

INDUSTRY

Process water

Corrosion-free conveyance in plant applications.

INFRASTRUCTURE

Ducting

Cable and services ducting.

Fields marked "On enquiry" are issued against a specific enquiry. Full specification, reference tables and fittings: aggarwalglobal.com/products/hdpe-pipes.html

GENERAL

Product	HDPE pressure pipe for water supply and irrigation
Standard	IS 4984
Material grades	PE 63, PE 80, PE 100
Pressure classes	PN 2 to PN 20 depending on grade
Outside diameter range	20 mm to 630 mm
Extrusion rate	300 kg per hour
Monthly capacity	Approximately 200 tonnes
Colour	Black with identification stripe
Supply form	Coils on smaller diameters; straight lengths of 6 to 12 m on larger — On enquiry for the changeover diameter

MATERIAL PROPERTIES

Tensile strength	220 – 310 kg/cm ²
Impact strength	Zero break
Compression strength	186 – 248 kg/cm ²
Vicat softening point	80 °C
Coefficient of linear expansion	0.20 mm/m.°C
Specific gravity	0.94 – 0.96
Joining	Butt fusion, electrofusion or compression fittings

STANDARDS

IS 4984	High density polyethylene pipes for water supply
IS 14151	Polyethylene pipes for sprinkler irrigation systems
IS 12786	PVC pipes for irrigation — referenced for the environmental stress cracking test
ISO 4427	Plastics piping systems for water supply — the export equivalent
IS 8360	Fittings for HDPE pipes



ENQUIRIES

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Delivery as per the client's requirement, confirmed with the quotation. Ex Factory or FOB for export.