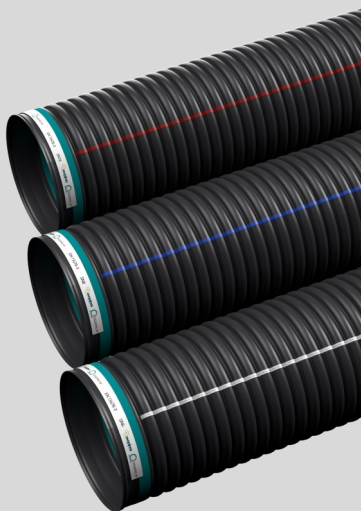


TECHNICAL DATA SHEET



DN/ID 500, 600, 800, 1000 mm



DN/ID 300, 400 mm



Material: **polypropylene (PP)**

Ring stiffness:

≥SN4 (kN/m²)*

≥SN8 (kN/m²)

≥SN16 (kN/m²)*

**upon request*

Ring flexibility: **RF30**

Impact strength at -10°C:

❄ (Ice crystal)

Open product

GIGAPIPE PP

DN/ID series, type B, gravity sewerage pipes with smooth internal and profiled (corrugated) external surface.

PRODUCT DESCRIPTION

GIGAPIPE PP double-wall pipes with profiled (corrugated) external and smooth internal surface, type B, polypropylene (PP) pipes for the construction of road culverts, rain, and wastewater infrastructure. GIGAPIPE pipes have a long operational life, modest maintenance and installation costs, excellent hydraulic properties, and high mechanical strength (resistance to dynamic and static as well as point-type stresses impacting during exploitation), friction, and chemical degrading.

The design of the pipe consists of two layers with a structured outer and smooth inner layer surface from PP material. The external side is corrugated and the profile properties guarantee high mechanical strength and impact resistance parameters. Smooth internal walls of the pipes ensure the excellent hydraulic properties required for pressure-free (natural gravity) systems.

Nominal ring stiffness class SN8 (SN4 and SN16 available upon request). Special rubber sealing ring is has to be used for connecting pipes together (ordered separately). Standard pipe bar length—6m (other lengths upon request).

Pipe material: PP (polypropylene)

Pipe produced according to standard: EN 13476-3

Conformity:

EN 13476-3, type B



Nordic Poly Mark

APPLICATION AREA

GIGAPIPE scope of use:

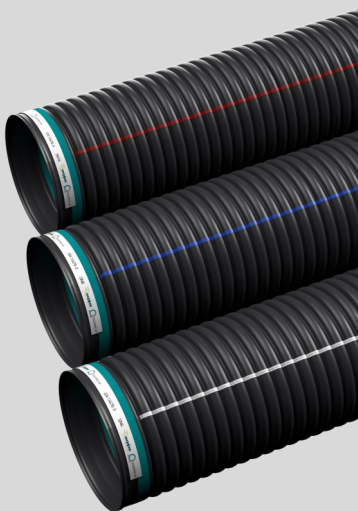
1. Utility wastewater and stormwater gravity sewerage systems.
2. Road construction infrastructure for culvert construction.
3. Special solutions for industry and communities.
4. Drainage systems for highway and railroad construction.

Intended installation depth for pipes with nominal ring stiffness SN8 are 0.8 — 6.0 [m]. Recommended pipe installation according to traffic load groups defined in EN 124 (intended for 1., 2., 3., 4. groups).

TECHNICAL DATA SHEET



DN/ID 500, 600, 800, 1000 mm



DN/ID 300, 400 mm



Material: **polypropylene (PP)**

Ring stiffness:

≥SN4 (kN/m²)*

≥SN8 (kN/m²)

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*upon request

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EN 13476-3, type B



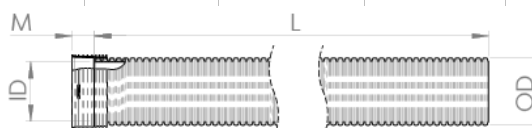
PRODUCT PARAMETERS

Pipe physical and mechanical properties

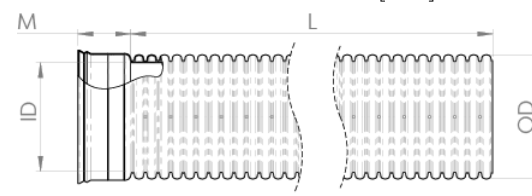
Parameter	Value	Test method
Material	polypropylene (PP)	
Ring stiffness (SN), kN/m ²	≥8	EN ISO 9969
Ring flexibility (RF), pie 23°C un RH50 %	At 30% sample deformation without changes in pipe structure (compiles with class RF30)	EN ISO 13968
Impact strength at -10°C (staircase method)	H ₅₀ ≥1000 mm H _{min} =500 mm (no break)	EN ISO 11173
Creep ratio, at 23°C /1008 h	at 2 years extrapolation ≤ 4	EN ISO 9967
Coefficient of linear expansion	12x10 ⁻⁵ [1/°C]	CEN/TS 15223 Table 2

PRODUCT DIMENSIONS

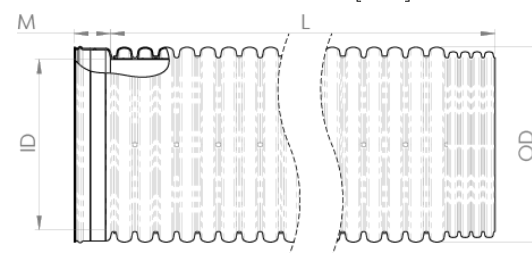
DN/ID, mm	300	400	500	600	800	1000
ID, mm	296,8	396,6	495	594	793	992,5
OD, mm	339	455	565,7	678,9	906,3	1134,3
L, m*	6 m					
M, mm	110	135	246	289	227	212



DN/ID 300 un 400 [mm]



DN/ID 500 un 600 [mm]



DN/ID 800 un 1000 [mm]