

TECHNICAL DATA SHEET



EVOSAN PP SN8

DN/OD series utility sewerage system pipes, type B, with profiled (corrugated) external and smooth internal surface

According to:
EN 13476-3,
Type B

PRODUCT DESCRIPTION

EVOSAN PP (polypropylene) double-wall type B pipe with ring stiffness SN 8 at one end is equipped with welded on solid PP coupling, but at the other end — a rubber sealing ring is installed (placed) in the first full groove of the corrugation. The supplied sealing ring grants a hermetic seal with a pressure rating of <0,5 bar (for coupling area). Due to corrugated outside layer construction pipe has a high impact resistance. Smooth internal wall of the pipe ensure excellent hydraulic properties. Pipe outer surface color is brown, but internal surface is white.

Sealing ring material: EPDM (ethylene-propylene-diene rubber (terpolymer)). On request available a NBR (acrylonitrile-butadiene rubber) sealing ring.

Pipe produced according to standard: EN 13476-3

Sealing rings conform to standard: EN 681-1/A3

Sealing rings grants a hermetic seal conform to standard:

EN ISO 13259 Condition B un C and EN ISO 13254

APPLICATION AREA

EVOSAN pipes are best suited for utility sewerage systems. Intended depth of construction for pipes with ring stiffness SN8 are 0.8 — 6.0 m. Pipe construction is recommended according to traffic load groups defined in EN 124 (intended for 1., 2., 3., 4. groups). Conform to standart EN 13476-3 classification pipes DN/OD 160-315 mm are marked with code UD (structured-wall pipes and fittings, which are intended to be used buried underground outside the building structure) and pipes DN/OD 400 mm are marked with code U (structured-wall pipes and fittings, which are intended to be used buried underground both outside and within the building structure).

Ring stiffness: **≥SN8 (kN/m²)**

Ring flexibility: **RF30**

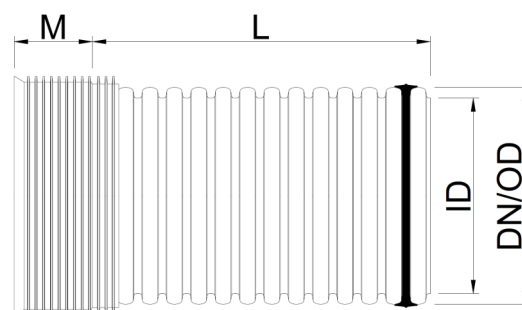
Impact strength at -10°C:

❄️ (Ice crystal)

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PRODUCT DIMENSIONS

DN/OD, mm	ID, mm	L, m	M, mm
160	138,9	3/6	85
200	174,6		88,6
250	215,9		94,5
315	274,1		108
400	349,8		136,5



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PRODUCT PARAMETRES

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, at 23°C and RH50 %	At 30% sample deformation without changes in pipe structure (compiles with class RF30)	EN ISO 13968
Impact strenght 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
Sealing ring physical and mechanical properties		
WCL type rubber sealing ring		
Material	EPDM	ISO 1629
Durability in low temperature, at t= -25°C	72 h	ISO 815
	168 h	ISO 3387
Chemical resistance	pH2<pH<pH12	ISO/TR 7620
Permeability pressure	≤0,5 bar	EN ISO 13254 EN ISO 13259 Condition B and C
WG/WCO type rubber sealing ring		
Material	NBR	ISO 1629
Oil resistance, Oil No. 1 and Oil No. 3 at t= 70°C	72 h	EN 681-1/A3
Chemical resistance	pH2<pH<pH12	ISO/TR 7620
Permeability pressure	≤0,5 bar	EN ISO 13254 EN ISO 13259 Condition B and C

Ring stiffness: ≥**SN8 (kN/m²)**

Ring flexibility: **RF30**

Impact strength at -10°C:

❄ (Ice crystal)

Open product