

# TECHNICAL DATA SHEET



Nominal ring stiffness class:  
**≥SN8 (kN/m<sup>2</sup>)**

Ring flexibility: **RF30**

Impact resistance at -10°C:

❄️ (Ice crystal)

**Open product**

## RIGID MULTI PP SN8

Smooth 3-layer sewage pipes, EN 13476-2 type A, with friction welded socket and locking seal ring

### PRODUCT DESCRIPTION

**RIGID MULTI PP** smooth-wall pipes for gravity sewer network systems with friction welded socket and locking seal ring. These pipes are produced using three-layer technology, where external and internal layer is made of high flexural modulus polypropylene (PP) material but the intermediate layer consists of structured polypropylene (PP) material.

Standard colour of the outer side of RIGID MULTI PP pipe is reddish brown but inside is white for better visibility during CCTV control thereby facilitating determination of defects within sewerage networks.

The supplied sealing ring grants a hermetic seal with a pressure rating of ≥0,5 bar (for coupling area). Oil resistant seal acc. to requirements of EN 681-2 p.5.10.

Sealing ring material: EPDM (ethylene-propylene-diene rubber (terpolymer)).

Pipe produced according to standard: EN 13476-2

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

Conformity:

EN 13476-2, type A



### APPLICATION AREA

**RIGID MULTI PP** pipes are applicable in utility wastewater and stormwater gravity sewerage systems.

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).

- Utility sewerage systems at building construction areas
- Street construction - with and without traffic load
- Extension of existing sewerage system networks
- In parks, squares and recreational areas
- Etc.

### PRODUCT DIMENSIONS

|                         |           |     |     |     |     |     |
|-------------------------|-----------|-----|-----|-----|-----|-----|
| Nominal size DN/OD [mm] | 110       | 160 | 200 | 250 | 315 | 400 |
| Length, [m]             | 2 / 3 / 6 |     |     |     |     |     |

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### PRODUCT PARAMETERS

Conformity:

EN 13476-2, type A



#### Pipe physical and mechanical properties

| Parameter                                   | Value                                                                                  | Test method  |
|---------------------------------------------|----------------------------------------------------------------------------------------|--------------|
| Material                                    | Polypropylene (PP-B)                                                                   |              |
| Ring stiffness, SN [kN/m <sup>2</sup> ]     | ≥8                                                                                     | EN ISO 9969  |
| Ring flexibility RF, at 23°C and RH50 %     | At 30% sample deformation without changes in pipe structure (complies with class RF30) | EN ISO 13968 |
| Impact strength at -10°C (staircase method) | H <sub>50</sub> ≥ 1000 mm                                                              | EN ISO 11173 |
| Creep ratio, at 23°C /1008 h                | ≤ 4 at 2 years extrapolation                                                           | EN ISO 9967  |

#### 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<br>EN ISO 13259<br>Condition B and C |
| Oil resistance*                           | Conforms        | EN 681-2                                          |

\*Oil resistant seal acc. to requirements of EN 681-2 p.5.10; conformity determined by Volume change in oil test acc. to ISO 1817

### PRODUCT MARKING

#### Pipe marking

| Aspect                          | Marking          |
|---------------------------------|------------------|
| Manufacturers information       | EVOPIPES         |
| Product name                    | RIGID MULTI PP   |
| QA organization signature       | Nordic Poly Mark |
| Extrusion type                  | MULTILAYER       |
| Standard number                 | EN 13476-2       |
| Ring stiffness class            | SN8              |
| Ring flexibility                | RF30             |
| Impact resistance               | Ice crystal      |
| Intended installation area code | UD               |
| Pipe nominal size               | e.g. DN/OD200    |
| Pipe length                     | e.g. 6m          |
| Date of production              | date             |
| Batch No.                       | Reference number |