

# TECHNICAL DATA SHEET



## RIGID MULTI UV10

DN/OD series drainage pipe with smooth internal and external surface, type R3

Conformity:  
EN 13476-2  
DIN 4262-1

### PRODUCT DESCRIPTION

RIGID MULTI UV10 is UV radiation resistant drainage discharge pipe with integral socket and integrated sealing ring. 3-layer construction technology ensures excellent mechanical properties and smooth inner surface ensures excellent hydraulic parameters. The supplied sealing ring grants a hermetic seal with a pressure rating of  $\geq 0,5$  bar (for coupling area). Oil resistant seal acc. to requirements of EN 681-2 p.5.10.

Pipe material: polypropylene (PP)

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

Perforation type: unperforated (UP)

Pipe produced according to standard: EN 13476-2 and DIN 4262-1 standard specifications

Lifetime: over 50 years

Ring stiffness:  $\geq \text{SN8}$  (kN/m<sup>2</sup>)

Ring flexibility: **RF30**

UV radiation resistance:  
**>700 kLy**

### APPLICATION AREA

Drainage systems at discharge sites with direct UV radiation.

### UV RESISTANCE

UV radiation exposure is radiation energy which is emitted over the particular time period in a particular area. It can be expressed in the following measurements, as: W·h/m<sup>2</sup>, J/m<sup>2</sup> or most often as **Langley (Ly)**. That is a measurement which expresses energy radiation power distribution on a surface and it is used to measure sun radiation.

RIGID MULTI UV10 is made from specially modified polypropylene (PP) to withstand UV radiation **>700 kLy** (in Latvia for a period of 10 years).

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### PRODUCT DIMENSIONS

Nominal size DN/OD [mm]	110	160	200
Length, [m]	3 / 6		

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### PRODUCT PARAMETERS

#### 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 (compiles 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
Coefficient of linear expansion	12x10 <sup>-5</sup> [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
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

Ring stiffness: **≥SN8 (kN/m<sup>2</sup>)**

Ring flexibility: **RF30**

UV radiation resistance:  
**>700 kLy**

**Open product**

### PRODUCT MARKING

#### Pipe marking

Aspect	Marking
Manufacturers information	EVOPIPES
Product name	RIGID MULTI PP UV10
Standard number	EN 14758-1 Type A
Ring stiffness class	SN10
Ring flexibility	RF30
Impact resistance	Ice crystal
Intended installation area code	UD
Pipe nominal size	e.g. DN/OD200
S-series	S14
Pipe length	e.g. 6m
Date of production	date
Batch No.	Reference number