

Technical data sheet

Drip irrigation Filament ID s.r.o.

The hoses are made of low-density polyethylene (LDPE). Owing to their composition, they are suitable for outdoor and indoor use. Maximum water temperature in the hose can reach 65 °C.

All hoses have been tested in compliance with standard PN 10, maximum allowed pressure is 4.3 MPa. The hoses are black due to soot used as colour pigment. UV stabilisers, antioxidants and stabilisers avoiding the effects of fertilisers and sprayed substances are also used in the manufacturing process, hence, minimum declared durability is 5 years, provided appropriate use.

The actual irrigation is carried out by the drippers, the distance between them is ranging 25-100 cm.

They are made in two versions (water dosage 2 l or 4 l / 1 hour, with or without compensation).

Dimensions of irrigation hoses and supply hoses for all options and dripper intervals

Outer diameter and tolerance (mm)	Wall thickness and tolerance (mm)	Nominal inner diameter (mm)
16,0 +0,2 -0,2	1,1 +0,1 -0,1	13,8
20,0+0,2-0,2	1,5 +0,1-0,1	17,0
25+0,2-0,2	2,4 +0,1-0,1	20,2

Inner and outer surface

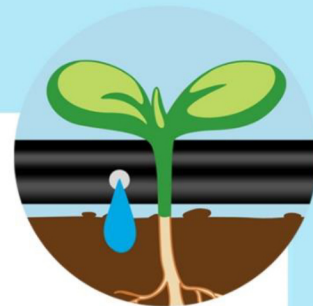
The hoses are manufactured in three-layer technology. The centre layer guarantees physical and mechanical properties. The inner and outer layer protect against UV radiation and chemical agents.

The hoses are black, glossy, no burrs, fissures and grooves.

Outgoing quality inspection

In-production checks are made by the authorised person (foreman), visually inspecting every coil. Surface, correct drilling of drippers, the intervals between them and more are checked.

Outgoing laboratory inspection includes MFI measurement, which is extremely important for guaranteeing required physical and mechanical properties. Pressure of the products and accurate water dosage are checked randomly.



Packing

As standard, all irrigation hoses are supplied in coils, 100 m or 300 m each. Water supply hoses are delivered upon individual requirements. The hoses are packed in shrink-wrapping.

Storage

Storage conditions are based on the requirements for storage of LDPE, i.e. ideal storage coil temperature ranging -30 to 60°C. Avoid storage near heat sources. Up to 7 coils can be stacked, which corresponds to storage height of approx. 2.5 m.

For the classification of LDPE flammability refer to ČSN EN 13501-1 = Class F.

Recommended extinguishing media:

water, foam, powder and CO₂ extinguishers.

Transport

Not any specific transport conditions have been defined and this material can be transported by various forwarders. Depending on quantity, the coils are placed on a pallet or transported in shrink-wrapping.

Use and handling

Recommended installation temperature ranging 0°C to 30°C. At lower temperatures, LDPE comes near to its glass transition point and the hose becomes less flexible and more brittle, hence, its handling is less comfortable.

Waste disposal

The material has been designed to comply with the most advanced trends in circular economy and to be easy to recycle.