

Layflat Hose



Polyurethane Multipurpose Layflat Hose, Heavy Duty Type

Applications

- Construction sites, waste water industry
- Agriculture and mining
- Transport of abrasive materials
- Flexible pipeline even in extreme terrain
- Irrigation and sludge disposal
- Supply hose for liquid manure and sludge injection systems
- For heavy duty service under toughest conditions

Features

- Superior abrasion resistance
- Extremely hardwearing and durable for long service life
- Ultra-high tensile strength
- Resistance to oil, fuel and a wide range of chemicals (see resistance table in technical appendix)
- Resistance to weathering, UV and ozone
- Lightweight and easy to handle compared to material handling hose in rubber
- Excellent cold flexibility

**Our premium polyurethane product
- nothing can cope with it!**



Bore size (mm) (inch)		Weight (gr/m) (lbs/ft)		Wall thickness (mm) (inch)		Working pressure* (Bar) (PSI)		Bursting pressure (Bar) (PSI)		Breaking strength** (kg) (lbs)	
90	3 1/2"	1,150	0.77	3.5	0.14	14	200	42	600	12,000	26,400
102	4 "	1,400	0.94	3.5	0.14	14	200	42	600	13,800	29,700
114	4 1/2"	1,500	1.01	3.5	0.14	14	200	42	600	16,000	35,200

Standard lengths: 100 / 200 m (330 / 660 ft), other lengths on request

Standard colour: black

Service temperature: -50°C up to +75°C (-58°F up to 167°F), based on water

Tolerances can be found in the technical appendix

Change in technical specification without prior notice 10 Bar = 1 MPa

* technical data based on water. For air pressure the minimum safety ratio is 1:4. Depending on the application our product can be operated with a maximum working pressure up to 50 % of the bursting pressure. Consult factory for approval!

It is important to note, that the technical data for pressure are only valid for hose and not for hose assembly with couplings!

** to obtain maximum lifetime the end pull under working conditions should not exceed 1/3 of the breaking strength

Construction

Textile reinforcement:

- High tenacity polyester yarn, circular woven
- Special weaving design for ultra-high tensile strength, minimum bending radius and low elongation under pressure
- Totally embedded in the PU compound, excellent protected against mechanical damage

Lining and cover:

- Thermoplastic polyether polyurethane extruded "through the weave" in a unique one step production process
- Superior abrasion resistance 5-6 times better than NBR/PVC hoses
- Inside: very smooth for minimum friction loss
- Outside: very smooth for good flexibility, thick wall for unbeatable wear and tear properties

Special Options

- HILCOFLEX PU DRAGEXTRA with 4.5 mm (0.18") wall thickness
- Single lengths longer than 200 m (660 ft)
- 52 - 90 mm (2 - 3 1/2") up to 500 m (1,650 ft)
- 102 - 127 mm (4 - 5") up to 400 m (1,320 ft)
- Other dimensions

Note that special options are subject to a higher price and a minimum order of 2,000 m (6,600ft) per dimension. Production short lengths and overproduction up to 10 % of the total order quantity have to be accepted. Enquire for details!