



 **GH HILCOFLEX PU**

HP

MULTI-PURPOSE POLYURETHANE HOSE

APPLICATIONS

- Construction, industry, waste disposal
- Agriculture and mining
- Transport of abrasive materials
- Irrigation and liquid manure distribution
- For heavy duty applications

FEATURES

- Outstanding abrasion resistance
- Extremely tough, resistant to wear and durable
- Resistant to oil, petrol and chemicals (see resistance table)
- Resistant to ageing and ozone
- Lightweight and flexible compared to mandrel-wound industrial hoses
- Very good flexibility at low temperatures

CONSTRUCTION

Jacket lining:

- High-tenacity polyester yarn, circular woven
- Specially designed for high continuous working pressures, high tensile strength and low elongation under pressure
- Totally embedded in the polyurethane, offering optimum protection against mechanical damage

Lining and jacket:

- Thermoplastic polyether polyurethane, extruded through the weave in a special one-step production process
- Highly resistant to abrasion, 4–5 times longer service life than nitrile hoses
- Inside: very smooth for minimum pressure loss
- Outside: very smooth for good flexibility

PRESSURES

Working pressure:

Specifications apply only to the hose (medium water, 20°C). The potential working pressure may be lower than specified above for hose lines with couplings due to the nominal pressure of the couplings or the type of assembly. For compressed air, the maximum working pressure is 25% of the burst pressure.

Maximum working pressure:

Approval can only be given by the manufacturer upon clarification of the exact area of application.

BREAKING STRENGTH

The maximum tensile load in continuous use should not exceed 1/3 of the breaking strength.

STANDARD LENGTH

100/200 m, cut to length for a surcharge

STANDARD COLOR

Black

Green

TEMPERATURE

-50°C to +75°C (water)

INDIVIDUAL SOLUTIONS

- Colour according to customer specification
- Professional assembly of all coupling systems suited to layflat hoses
- With * marked diameters on request

Bore size in mm	Weight in g/m	Wall thickness in mm	Working pressure in bar / PSI	Working pressure max. in bar / PSI	Bursting pressure in bar / PSI	Breaking strength in kg
52	430	2,4	16 / 230	20 / 290	50 / 725	5.000
65*	630	2,6	16 / 230	20 / 290	50 / 725	6.300
76	700	2,8	16 / 230	20 / 290	50 / 725	8.800
90	950	2,9	14 / 205	17 / 245	42 / 610	10.900
102	1.150	3,3	14 / 205	17 / 245	42 / 610	13.800
114*	1.300	3,3	14 / 205	17 / 245	42 / 610	13.800
127	1.500	3,4	14 / 205	17 / 245	42 / 610	17.000
152	1.900	3,7	14 / 205	17 / 245	42 / 610	17.900
180	2.500	4,3	14 / 205	17 / 245	42 / 610	31.000
205	3.000	4,5	14 / 205	17 / 245	42 / 610	38.000
254	4.200	5,1	14 / 205	17 / 245	42 / 610	45.000
305	5.100	5,1	10 / 145	14 / 205	35 / 510	55.000
356	6.400	5,3	10 / 145	14 / 205	35 / 510	66.500

