



 **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

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

TEMPERATURE

-50°C to +75°C (water)

STANDARD COLOR

Black

Green

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* | 5.600 | 4,3 | 4 / 60 | 5 / 75 | 12 / 175 | 42.000 |

