

polyurethane – metric

close tolerance flexible polyurethane tubing



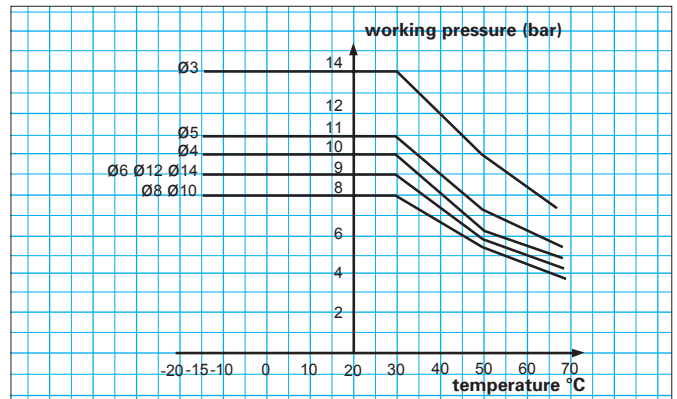
Technical characteristics of Legris polyurethane tubing also depend on the type of connection used.

The high flexibility of Legris flexible polyurethane tubing allows compact cabling where a small bend radius is required. Legris flexible polyurethane tubing has a shore hardness 52°D and conforms to NFE 49.101 standard.

| O.D. of tube | tolerances on O.D. | Connected to Legris instant fittings, the calibration of Legris polyurethane tubing ensures perfect sealing. |
|--------------|--------------------|---|
| 3 to 8mm | +0.10 -0.10 | |
| 10 to 14mm | +0.15 -0.15 | |

pressure and temperature resistance of Legris polyurethane tubing

In the graph below, each curve represents the acceptable maximum pressure at a given temperature, by diameter.
example: polyurethane tube, Ø4 mm, at 20°C, working pressure = 10 bar



To calculate burst pressure, the values in the above graph should be multiplied x 3

In order to answer the different needs of the user, Legris provides additional ranges of polyurethane tubing:

- polyurethane twin tubing – below
- polyurethane recoil tubing – page M21

close tolerance flexible polyurethane twin tubing



Technical characteristics of Legris flexible polyurethane twin tubing are the same as for Legris polyurethane tubing.

Legris flexible polyurethane twin tubing maintains the smooth surface of both tubes when separated and keeps the characteristics of their dimension.








Its use enables:

- swift and easy assembly
- compactness of circuitry
- differentiation of circuits, via two colors

| O.D. of tube | tolerances on O.D. | Connected to Legris instant fittings, the calibration of Legris flexible polyurethane twin tubing ensures optimum sealing. |
|--------------|--------------------|---|
| 4 to 8mm | +0.10 -0.10 | |








polyurethane – metric

1025U flexible polyurethane tubing

| O.D. tube mm | I.D. tube mm | R minimum bend radius for tube at ambient temp. in mm | Flexible polyurethane tubing in 25m rolls – packaged in tubepack® | | | | | | | kg for 25m |
|--------------|--------------|---|---|---|---|---|--|--|--|---------------|
| | | |  clear |  black |  green |  red |  blue |  yellow |  gray | |
| 3 | 1.8 | 8 | | 1025U03 01 18 | | | | | | 0.020 |
| 4 | 2.5 | 10 | 1025U04R08 | 1025U04 01 | 1025U04 02 | 1025U04 03 | 1025U04 04 | 1025U04 05 | 1025U04 06 | 0.310 |
| 5 | 3 | 13 | 1025U05R08 | 1025U05 01 | | | 1025U05 04 | | | 0.522 |
| 6 | 4 | 15 | 1025U06R08 | 1025U06 01 | 1025U06 02 | 1025U06 03 | 1025U06 04 | 1025U06 05 | 1025U06 06 | 0.591 |
| 8 | 5.5 | 20 | 1025U08R08 | 1025U08 01 | 1025U08 02 | 1025U08 03 | 1025U08 04 | 1025U08 05 | 1025U08 06 | 0.971 |
| 10 | 7 | 25 | 1025U10R08 | 1025U10 01 | 1025U10 02 | | 1025U10 04 | 1025U10 05 | 1025U10 06 | 0.467 |
| 12 | 8 | 35 | 1025U12R08 | 1025U12 01 | 1025U12 02 | | 1025U12 04 | 1025U12 05 | 1025U12 06 | 2.406 |
| 14 | 9.5 | 45 | | 1025U14 01 95 | | | 1025U14 04 95 | | | 2.815 |

* 'R' designates polyether tubing




1100U flexible polyurethane tubing

| O.D. tube mm | I.D. tube mm | R minimum bend radius for tube at ambient temp. in mm | Flexible polyurethane tubing in 100m rolls – packaged in tubepack® | | | | | | | kg for 100m |
|--------------|--------------|---|---|---|---|---|--|--|--|----------------|
| | | |  clear |  black |  green |  red |  blue |  yellow |  gray | |
| 4 | 2.5 | 10 | | 1100U04 01 | 1100U04 02 | 1100U04 03 | 1100U04 04 | 1100U04 05 | 1100U04 06 | 1.092 |
| 5 | 3 | 13 | | 1100U05 01 | | | 1100U05 04 | | | 1.605 |
| 6 | 4 | 15 | 1100U06R08 | 1100U06 01 | 1100U06 02 | 1100U06 03 | 1100U06 04 | 1100U06 05 | 1100U06 06 | 2.064 |
| 8 | 5.5 | 20 | 1100U08R08 | 1100U08 01 | 1100U08 02 | 1100U08 03 | 1100U08 04 | 1100U08 05 | 1100U08 06 | 3.610 |
| 10 | 7 | 25 | 1100U10R08 | 1100U10 01 | | | 1100U10 04 | | | 6.105 |
| 12 | 8 | 35 | 1100U12R08 | 1100U12 01 | | | 1100U12 04 | | | 8.610 |
| 14 | 9.5 | 45 | | 1100U14 01 95 | | | 1100U14 04 95 | | | 11.215 |

* 'R' designates polyether tubing

flexible polyurethane twin tubing

1420U flexible polyurethane twin tubing, 25m roll

| O.D. tube mm | I.D. tube mm | R minimum bend radius for tube at 20° C in mm | Part numbers for flexible polyurethane twin tubing in 25m rolls – packaged in tubepack® | | | kg for 25m |
|--------------|--------------|---|---|---|---|---------------|
| | | |  |  |  | |
| 4 | 2.5 | 10 | 1420U04 11 | 1420U04 44 | 1420U04 41 | 0.620 |
| 6 | 4 | 15 | 1420U06 11 | 1420U06 44 | 1420U06 41 | 1.182 |
| 8 | 5.5 | 20 | 1420U08 11 | 1420U08 44 | 1420U08 41 | 1.942 |

Some technical tubing applications require a specific quality of polyurethane tubing (polyether or polyester). Legris offers both polyether PU and polyester PU. We recommend polyether PU tubing for water flow or liquids. For more information, please consult us.