

technical tubes and hoses

close tolerance flexible polyurethane tubing



The excellent 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 NF E49-101 standard.

The Legris range comprises 2 versions:

- **polyester polyurethane** tubing, for superior **chemical resistance** and improved **ageing**,
- **polyether polyurethane** tubing, for excellent **resistance to humidity** and **bacteriological aggressions**.

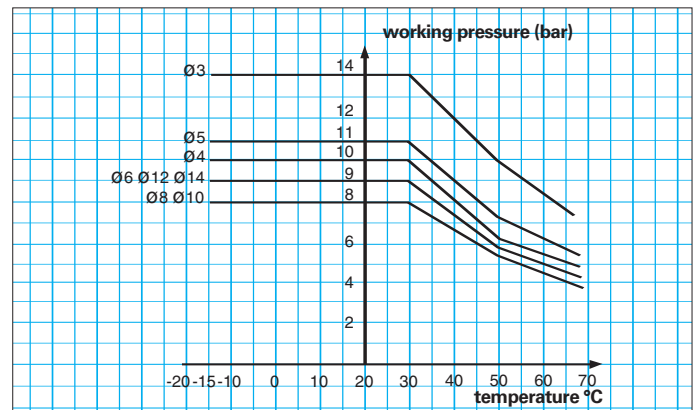
o.d. of tube	tolerances on o.d.	
3 to 8 mm	+0,10	-0,10
10 to 14 mm	+0,15	-0,15

Connected to Legris instant fittings, the calibration of Legris polyurethane tubing ensures perfect sealing.

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

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

The **vacuum capability** of Legris flexible polyurethane tubing is of 755 mm Hg (99 % vacuum). Connected with LF 3000® push-in fittings, it offers excellent vacuum performance.

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

- anti-static polyurethane tubing – page K12
- polyurethane twin tubing – page K15
- polyurethane recoil tubing – pages K17/K18







advantages of Legris polyurethane tubing

- high flexibility and small bend radius
- large range of working temperatures and pressures
- good chemical resistance (see the list of fluids at the end of this section)







- small pressure drop
- constant rigidity, good ageing
- good absorption of vibration
- UV resistant
- 7 colours for easy circuit identification
- fluid identification (crystal version)

close tolerance flexible polyurethane tubing




1025U flexible polyester polyurethane tubing, in 25 m rolls

o.d. tube mm	i.d. tube mm	R minimum bend radius for tube at ambient temperature in mm	flexible polyester polyurethane tubing, in 25 m rolls						kg for 25 m
									
3	1,8	8	1025U03 01 18						0,020
4	2,5	10	1025U04 01	1025U04 02	1025U04 03	1025U04 04	1025U04 05	1025U04 06	0,310
5	3	13	1025U05 01			1025U05 04			0,522
6	4	15	1025U06 01	1025U06 02	1025U06 03	1025U06 04	1025U06 05	1025U06 06	0,591
8	5,5	20	1025U08 01	1025U08 02	1025U08 03	1025U08 04	1025U08 05	1025U08 06	0,971
10	7	25	1025U10 01	1025U10 02		1025U10 04	1025U10 05	1025U10 06	1,467
12	8	35	1025U12 01	1025U12 02		1025U12 04	1025U12 05	1025U12 06	2,406
14	9,5	45	1025U14 01 95			1025U14 04 95			2,815




1100U flexible polyester polyurethane tubing, in 100 m rolls

o.d. tube mm	i.d. tube mm	R minimum bend radius for tube at ambient temperature in mm	flexible polyester polyurethane tubing, in 100 m rolls						kg for 100 m
									
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	1100U06 01	1100U06 02	1100U06 03	1100U06 04	1100U06 05	1100U06 06	2,064
8	5,5	20	1100U08 01	1100U08 02	1100U08 03	1100U08 04	1100U08 05	1100U08 06	3,610
10	7	25	1100U10 01			1100U10 04			6,105
12	8	35	1100U12 01			1100U12 04			8,610
14	9,5	45	1100U14 01 95			1100U14 04 95			11,215

1025U..R close tolerance flexible polyether polyurethane tubing, in 25 m rolls

o.d. tube mm	i.d. tube mm	R minimum bend radius for tube at ambient temperature in mm	close tolerance flexible polyether polyurethane tubing, in 25 m rolls			kg for 25 m
						
4	2,5	8	1025U04R01	1025U04R04	1025U04R08	0,310
5	3	11			1025U05R08	0,522
6	4	12	1025U06R01	1025U06R04	1025U06R08	0,591
8	5,5	18	1025U08R01	1025U08R04	1025U08R08	0,971
10	7	22	1025U10R01	1025U10R04	1025U10R08	1,467
12	8	35	1025U12R01	1025U12R04	1025U12R08	2,406
14	9,5	45		1025U14R04 95	1025U14R08 95	2,815

1100U..R close tolerance flexible polyether polyurethane tubing, in 100 m rolls

o.d. tube mm	i.d. tube mm	R minimum bend radius for tube at ambient temperature in mm	close tolerance flexible polyether polyurethane tubing, in 100 m rolls			kg for 100 m
						
4	2,5	8	1100U04R01	1100U04R04	1100U04R08	1,092
6	4	12	1100U06R01	1100U06R04	1100U06R08	2,064
8	5,5	18	1100U08R01	1100U08R04	1100U08R08	3,610
10	7	22			1100U10R08	6,109
12	8	35			1100U12R08	8,610
14	9,5	45			1100U14R08 95	11,215