

# Polyurethane Extraflex 90 Tubing



Tubes produced in Extraflex 90 Polyurethane are manufactured with ester-based thermoplastic polyurethane and are durable and resistant to abrasion and crease. They have a hardness of 90 Shore A, which makes them extremely flexible and resistant to torsions. The polyurethane used in the production of this line of tubes has anti-UV and antioxidant resistance, which increases the durability of the tube, maintaining its properties for a longer period, however, they are indicated for indoor applications, protected from direct sunlight.



## Main properties

- Extremely flexible
- Excellent resistance to abrasion and crease
- Exceptional torsion resistance
- Low permeability
- Great damping capacity with good tolerance to compression (resilience)
- Good thermal stability
- Good resistance to hydrolysis
- High mechanical resistance
- Hardness of  $90 \pm 3$  Shore A

## Main applications

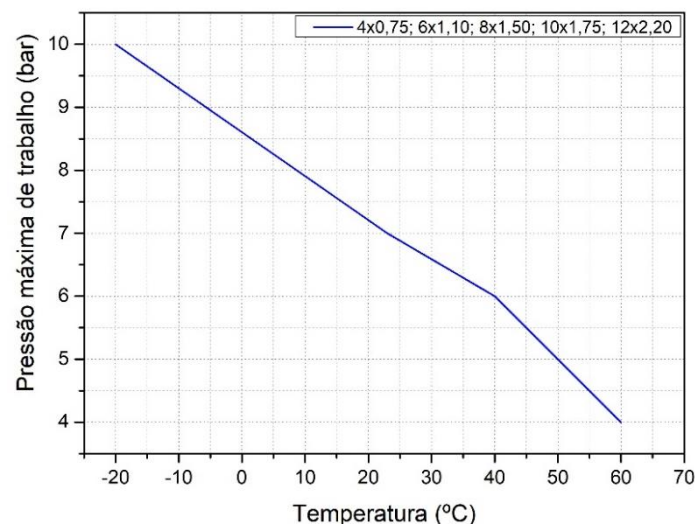
Polyurethane tubes of type Extraflex 90 are indicated for a wide and varied range of applications, such as: low pressure pneumatic and hydraulic systems, robotics, industrial automation, analytical instrumentation, vacuum equipment, equipment for semiconductor production, mainly in cases where greater flexibility is required, as in cases of bends and twists in reduced diameter. They are not recommended for automotive safety applications (eg air brake) or for drinking water.

## Working temperature








From  $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

## Working pressure

The service pressures vary according to the diameter and wall thickness of the tube, always observing the working temperature, as shown in the graph below.



## Sizes in millimeters

 Code	 External Diameter -mm-	 Internal Diameter -mm-	 Wall Thickness -mm-	 Maximum Working Pressure at 23°C -bar-	 Roll Length -m-	 Minimum Bend Radius -mm-
407MT90	4,00	2,50	0,75	7	100	13
413MT90	6,00	3,80	1,10	7	100	16
425MT90	8,00	5,00	1,50	7	100	20
437MT90	10,00	6,50	1,75	7	100	26
449MT90	12,00	7,60	2,20	7	50	26

**Standard Color**  
**Natural**

**NOTE:** Polyurethane Extraflex 90 tubes can also be colored, even without losing transparency. Consult us for more information.