

Balloon Tubing

Balloon tubing and balloon catheter: Balloon is made from a balloon tubing by blow molding, and is used in various medical catheters or delivery systems, including medical catheters or delivery systems for neurological intervention, cardiovascular intervention, and transcatheter heart valve delivery systems. The outer diameter of balloon tubing varies with different applications. For example, the outer diameter of neurointerventional balloon tubing is mostly less than 1 mm (0.0394 inch) and has a thin wall thickness, while the outer diameter of balloon tubing for heart valve delivery systems can be as high as 8 mm (0.3150 inch). Different medical materials can be used to make balloon tubing, including Pebax, PA, TPU, and PET via extrusion molding, giving them different mechanical properties.

Key Features

- High Precision Dimensions
- Superior Mechanical Properties
- Customization Options: Layers, Specifications, Performance
- Quick Delivery: Custom orders delivered within 10 days.

Applications

- Neurological intervention, cardiovascular intervention, transcatheter heart valve delivery systems, and non-vascular interventional techniques

Technical Data	Unit	Typical Value
Material		Pebax PA PET TPU and other materials are available, all resin grades are SA MED
Appearance	mm (inch)	The surface is smooth, uniform in color, and free of > 0.03 mm ² gel spots, black spots and other impurities.
The inner and outer diameter tolerance	mm (inch)	0.008 ~ 0.0127 (0.0003 ~ 0.0005)
Concentricity	%	> 95%.
Wall thickness	mm (inch)	0.0254 (0.0010)
Elongation	%	≤ 50%.
Explosive strength	PSI (atm)	up to 400 PSI (27.22 atm)
Fatigue strength	PSI (atm)	10 cycles at 235.14 PSI (16 atm), no cracks or damage to the tubing
Chemical characterization	%	ISO 10993-18, GB/T 14233.1-2008
Toxicity and biocompatibility testing	%	ISO10993-5:2009, GB/T 16886.5-2017
Initial contaminating bacteria	%	ISO11737.1-2006
Ultraviolet absorbance	The UV absorbance of the detection solution should be ≤ 0.1 Abs at 250 nm - 320 nm	The ultraviolet absorbance of the detection solution at 250 nm - 320 nm should be ≤ 0.1 Abs ISO 10993.18:2020, GB/T 14233.1

Ordering Information

Our experts can guide you in material selection, tubing/filament specifications, and custom-cut lengths to fit your specific biodegradable tubing/filament requirements.