



**Polyurethane** on Polyester basis

PUR-tubing with highest pressure resistance  
over a wide range of temperatures



# “The” PUR tubing

with optimum mechanical properties

We manufacture our standard product range made from polyester-polyurethane (PUR) for all classical pneumatic applications exclusively from German polyurethane manufacturers. Our tubes offer optimum mechanical properties and very high compressive strength over a wide temperature range. Even at higher temperatures and/or greater mechanical stress, this tubing still offers an adequate safety margin to ensure completely safe operation.

The characteristic feature of this material grade is the opaqueness of uncoloured tubing. Additional properties are:

- **high flexibility combined with optimum resilience**
- **plasticiser-free**
- **high flexibility at low temperatures (can be used up to -35 °C)**
- **high elongation at break**
- **good abrasion resistance**
- **suitable for vacuum applications**
- **suitable for drag chains**

The production process we have developed enables us to calibrate both the outside diameter and the wall thickness. That makes our tubing simple to use with the plug-ins or screw unions of all leading manufacturers. Moreover, we ensure that the ovality of our tubing remains within narrow limits compatible with plug-ins. This dimensional accuracy gives our tubing constant compressive strength at comparatively large inside diameters and makes it suitable for a wider range of practical uses.

By optimizing the throughput speed in combination with the optimal temperature during production, we also ensure that maximum benefit is derived from the specific material properties of PUR, giving our tubing the best possible properties in permanent service. All these measures are in line with our principle »Every inch a quality product« .

The standard range comprises the following sizes:

Outside-Ø in mm	Wall thickness in mm	Inside-Ø in mm	Weight g/m *	Minimal bend radius in mm	Minimum burst pressure (bar)
3,00	0,600	1,80	5,52	10	45
4,00	0,750	2,50	9,33	12	38
4,30	0,752	2,85	9,93	13	32
5,00	0,950	3,10	14,75	13	40
6,00	1,050	3,90	19,92	18	34
8,00	1,150	5,70	30,19	30	32
10,00	1,250	7,50	41,92	45	26
12,00	1,500	9,00	60,37	55	27
14,00	1,500	11,00	71,86	60	23
16,00	2,500	11,00	129,36	65	39

\*values are calculated | other dimensions possible

Our polyester tubing is available in the following colors:

nature (opaque)	blue	black	red
amber	yellow	green	grey
silver grey	brown	violet	orange

free of heavy metals | special colours possible

We deliver the tubing as rolls ex 5 meters, long length (up to 1.000 meter) on reusable wood coils or cut tubing ex 10 mm length. The tubes can be ordered as single or multi tubes and can be signed individual due to customers' wishes.