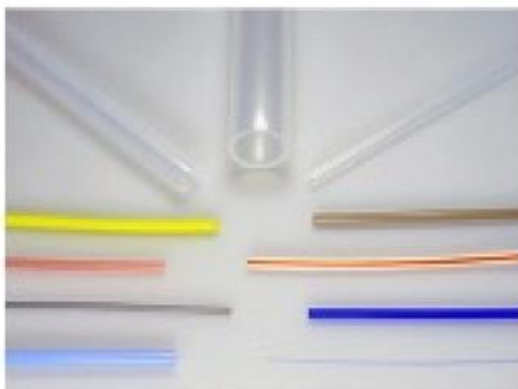




Due to their material properties, PVDF tubes are highly rigid, have good sliding properties and low gas permeability. PVDF tubes in the colour “natural” are opaque white and slightly yellowish when the wall thickness is high. On request, these tubes are also available in RAL colours.

PVDF (Kynar® Tubing)

Material information

PVDF belongs to the group of partially fluorinated plastics. The material is characterized by high impact strength, very good chemical resistance and very low gas permeability (permeation). Environmental ageing of the material is not detectable even after years of use.

Properties at a glance

- Continuous operating temperature between - 50 °C and +140 °C
- Very low permeation
- Smooth surfaces
- whitish opaque color
- High mechanical stiffness (shore D73-85)
- weldable
- Good chemical resistance
- non-flammable (according to UL94 V-0)
- Excellent ageing resistance
- LABS free
- Dimensionally stable even with thin walls

Standard dimensions:

Item number	Inside Ø	Outer Ø	Wall thickness	Packaging unit	min. Bending radius	Burst pressure at 23°C	max. working pressure at 23 °C
	[mm]	[mm]	[mm]		[mm]	[bar]	[bar]
ISKY0080/040	0,80 ± 0,05	1,6±0,05	0,40	Spool 100m	5 - 6	200	50
ISKY0160/080	1,6 ± 0,10	3,2 ± 0,10	0,80	Ring 50/100 m	10 -12	200	50
ISKY0200/100	2,0 ± 0,10	4,0 ± 0,10	1,0	Ring 50/100 m	20	206	51
ISKY0400/100	4,0 ± 0,10	6,0 ± 0,10	1,0	Ring 50/100 m	40	132	33
ISKY0160/100	6,0 ± 0,10	8,0 ± 0,10	1,0	Ring 50/100 m	55	97	24
ISKY0180/100	8,0 ± 0,10	10 ± 0,10	1,0	Ring 50/100 m	75	76	19
ISXY1000/100	10,0 ± 0,10	12 ± 0,10	1,0	Ring 50/100 m	130	61	15

Note

The specification of the maximum working pressure is a guide value derived from the theoretical burst pressure on the basis of 4:1 (fourfold safety). It is the responsibility of the user to check these values and, if necessary, to adapt them to the specific requirements. The pressure resistance is reduced, especially at elevated temperatures. Customer-specific dimensions can be manufactured on request at short notice.

Products

Diameter from 0.10 mm to 70.00 m. Round rods or monofilaments made of PVDF can also be manufactured up to a diameter of 4.50 mm

Tolerances and wall thicknesses can be set according to customer requirements.

X-ray measuring systems can be used for continuous dimensional checks.

Corresponding complete measurement logs can be provided.

Different colors are possible with corresponding minimum quantities

PVDF hoses are available in straight lengths of up to 6 m on request.

Customized dimensions can be manufactured at short notice.

manufactured on request.

Areas of application

Endoscopy

Water, water purification

Heat exchanger

Fluid handling in the laboratory