



Clear and Flexible Inner Braided for Pressure

Low-cost solution for many Applications

Weather for air, gas, water or many other media, also alcohol up to 20%, our OPTU®flex PVC Tubing as low pressure tubing or as braided pressure tubing suitable for many applications in industry, chemical industry and laboratory. Due to its low-cost, the tubing is also used to protect surfaces.

Product Benefits

Due to its super-transparency (depending on wall thickness) OPTU®flex PVC Tubing provides an excellent visual flow control. It is very flexible also as inner braided version. Good tensile strength, a high elongation of break and also a good general resistance.

Applications

The special properties of OPTU®flex PVC Tubing provide a wide range of possible applications. For supply and drain lines in filling systems, water circuits in laboratory, for pumping systems or as dosing tubing in food and beverage. Also as single-use product, anywhere where cleaning would be too costly or just not possible.

Features and Benefit

- Temperature Range -20°C to +60°C
- high flexibility
- Inner braided for higher pressure
- robust and abrasion-resistant
- free of toxic elements
- super-transparency for flow control
- good tensile strength, high elongation
- good general resistance

Typical Applications

- filling systems
- water circuits in laboratory
- pumping systems
- food- and beverage dosing

OPTU®flex PVC Standard Sizes

Part Number	ID	OD	Wall	short-term pressure rating at 20°C:	Part Number	ID	OD	Wall	short-term pressure rating at 20°C:
PV2,0GK4,0	2,0 mm	4,0 mm	1,0 mm	13 bar	PV16,0GK20,0	16,0 mm	20,0 mm	2,0 mm	4,0 bar
PV3,0GK5,0	3,0 mm	5,0 mm	1,0 mm	9,5 bar	PV16,0GK21,0	16,0 mm	21,0 mm	2,5 mm	5,0 bar
PV3,0GK6,0	3,0 mm	6,0 mm	1,5 mm	12,5 bar	PV16,0GK22,0	16,0 mm	22,0 mm	3,0 mm	6,0 bar
PV4,0GK6,0	4,0 mm	6,0 mm	1,0 mm	7,5 bar	PV18,0GK22,0	18,0 mm	22,0 mm	2,0 mm	3,5 bar
PV4,0GK7,0	4,0 mm	7,0 mm	1,5 mm	10,5 bar	PV18,0GK24,0	18,0 mm	24,0 mm	3,0 mm	5,0 bar
PV4,0GK8,0	4,0 mm	8,0 mm	2,0 mm	12,5 bar	PV19,0GK24,0	19,0 mm	24,0 mm	2,5 mm	4,5 bar
PV5,0GK7,0	5,0 mm	7,0 mm	1,0 mm	6 bar	PV19,0GK25,0	19,0 mm	25,0 mm	3,0 mm	5,0 bar
PV5,0GK8,0	5,0 mm	8,0 mm	1,5 mm	8,5 bar	PV19,0GK26,0	19,0 mm	26,0 mm	3,5 mm	5,5 bar
PV5,0GK9,0	5,0 mm	9,0 mm	2,0 mm	10,5 bar	PV19,0GK27,0	19,0 mm	27,0 mm	4,0 mm	6,5 bar
PV6,0GK8,0	6,0 mm	8,0 mm	1,0 mm	5,5 bar	PV20,0GK24,0	20,0 mm	24,0 mm	2,0 mm	3,0 bar
PV6,0GK9,0	6,0 mm	9,0 mm	1,5 mm	7,5 bar	PV20,0GK26,0	20,0 mm	26,0 mm	3,0 mm	4,5 bar
PV6,0GK10,0	6,0 mm	10,0 mm	2,0 mm	9,5 bar	PV22,0GK28,0	22,0 mm	28,0 mm	3,0 mm	4,5 bar
PV6,0GK12,0	6,0 mm	12,0 mm	3,0 mm	12,5 bar	PV25,0GK31,0	25,0 mm	31,0 mm	3,0 mm	4,0 bar
PV7,0GK9,0	7,0 mm	9,0 mm	1,0 mm	4,5 bar	PV25,0GK33,0	25,0 mm	33,0 mm	4,0 mm	5,0 bar
PV7,0GK10,0	7,0 mm	10,0 mm	1,5 mm	6,5 bar	PV25,0GK34,0	25,0 mm	34,0 mm	4,5 mm	5,5 bar
PV7,0GK11,0	7,0 mm	11,0 mm	2,0 mm	8,5 bar	PV27,0GK33,0	27,0 mm	33,0 mm	3,0 mm	3,5 bar
PV8,0GK10,0	8,0 mm	10,0 mm	1,0 mm	4,0 bar	PV28,0GK36,0	28,0 mm	36,0 mm	4,0 mm	4,5 bar
PV8,0GK11,0	8,0 mm	11,0 mm	1,5 mm	6,0 bar	PV30,0GK37,0	30,0 mm	37,0 mm	3,5 mm	4,0 bar
PV8,0GK12,0	8,0 mm	12,0 mm	2,0 mm	7,5 bar	PV30,0GK38,0	30,0 mm	38,0 mm	4,0 mm	4,0 bar
PV8,0GK14,0	8,0 mm	14,0 mm	3,0 mm	10,5 bar	PV30,0GK39,0	30,0 mm	39,0 mm	4,5 mm	4,5 bar
PV9,0GK11,0	9,0 mm	11,0 mm	1,0 mm	3,5 bar	PV30,0GK40,0	30,0 mm	40,0 mm	5,0 mm	5,0 bar
PV9,0GK12,0	9,0 mm	12,0 mm	1,5 mm	5,0 bar	PV32,0GK40,0	32,0 mm	40,0 mm	4,0 mm	4,0 bar
PV9,0GK13,0	9,0 mm	13,0 mm	2,0 mm	6,5 bar	PV32,0GK42,0	32,0 mm	42,0 mm	5,0 mm	5,0 bar
PV9,0GK14,0	9,0 mm	14,0 mm	2,0 mm	7,0 bar	PV35,0GK42,0	35,0 mm	42,0 mm	3,5 mm	3,5 bar
PV9,0GK16,0	9,0 mm	16,0 mm	3,5 mm	10,5 bar	PV35,0GK45,0	35,0 mm	45,0 mm	5,0 mm	4,5 bar
PV10,0GK13,0	10,0 mm	13,0 mm	1,5 mm	4,5 bar	PV38,0GK48,0	38,0 mm	48,0 mm	5,0 mm	4,0 bar
PV10,0GK14,0	10,0 mm	14,0 mm	2,0 mm	6,0 bar	PV40,0GK48,0	40,0 mm	48,0 mm	4,0 mm	3,0 bar
PV10,0GK16,0	10,0 mm	16,0 mm	3,0 mm	8,5 bar	PV40,0GK50,0	40,0 mm	50,0 mm	5,0 mm	4,0 bar
PV11,0GK15,0	11,0 mm	15,0 mm	2,0 mm	5,5 bar	PV45,0GK55,0	45,0 mm	55,0 mm	5,0 mm	3,5 bar
PV12,0GK15,0	12,0 mm	15,0 mm	1,5 mm	4,0 bar	PV50,0GK60,0	50,0 mm	60,0 mm	5,0 mm	3,0 bar
PV12,0GK16,0	12,0 mm	16,0 mm	2,0 mm	5,0 bar	PV55,0GK64,0	55,0 mm	64,0 mm	4,5 mm	2,5 bar
PV12,0GK18,0	12,0 mm	18,0 mm	3,0 mm	7,5 bar	PV60,0GK70,0	60,0 mm	70,0 mm	5,0 mm	2,5 bar

OPTUBUS GmbH – www.optubus.de – info@optubus.de

OPTUBUS believes that the information in this technical data sheet is an accurate description of the typical uses of the product. OPTUBUS, however, disclaims any liability for incidental or consequent damages, which may result from the use of the product that are beyond its control. Therefore it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficiency and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.

PV13,0GK17,0	13,0 mm	17,0 mm	2,0 mm	5,0 bar	PV65,0GK75,0	65,0 mm	75,0 mm	5,0 mm	2,5 bar
PV13,0GK18,0	13,0 mm	18,0 mm	2,5 mm	6,0 bar	PV70,0GK80,0	70,0 mm	80,0 mm	5,0 mm	2,5 bar
PV13,0GK19,0	13,0 mm	19,0 mm	3,0 mm	7,0 bar	PV75,0GK90,0	75,0 mm	90,0 mm	7,5 mm	3,4 bar
PV14,0GK18,0	14,0 mm	18,0 mm	2,0 mm	4,5 bar	PV80,0GK90,0	80,0 mm	90,0 mm	5,0 mm	2,3 bar
PV14,0GK19,0	14,0 mm	19,0 mm	2,5 mm	5,5 bar	PV90,0GK100,0	90,0 mm	100,0 mm	5,0 mm	2,1 bar
PV15,0GK19,0	15,0 mm	19,0 mm	2,0 mm	7,5 bar					

OPTU®flex PVC Inner braided Standard Sizes

Part Number	ID	OD	Wall	short-term pressure rating at 20°C:	Part Number	ID	OD	Wall	short-term pressure rating at 20°C:
PV4,0IB10,0	4,0 mm	10,0 mm	3,0 mm	25 bar	PV19,0IB26,0	19,0 mm	26,0 mm	3,5 mm	10 bar
PV5,0IB11,0	5,0 mm	11,0 mm	3,0 mm	25 bar	PV19,0IB27,0	19,0 mm	27,0 mm	4,0 mm	10 bar
PV6,0IB12,0	6,0 mm	12,0 mm	3,0 mm	25 bar	PV19,0IB29,0	19,0 mm	29,0 mm	5,0 mm	10 bar
PV8,0IB14,0	8,0 mm	14,0 mm	3,0 mm	16 bar	PV25,0IB34,0	25,0 mm	34,0 mm	4,5 mm	7 bar
PV9,0IB15,0	9,0 mm	15,0 mm	3,0 mm	16 bar	PV25,0IB37,0	25,0 mm	37,0 mm	6,0 mm	7 bar
PV10,0IB16,0	10,0 mm	16,0 mm	3,0 mm	16 bar	PV30,0IB38,0	30,0 mm	38,0 mm	4,0 mm	7 bar
PV12,0IB21,0	12,0 mm	21,0 mm	4,5 mm	10 bar	PV32,0IB42,0	32,0 mm	42,0 mm	5,0 mm	7 bar
PV12,5IB18,5	12,5 mm	18,5 mm	3,0 mm	10 bar	PV38,0IB48,0	38,0 mm	48,0 mm	5,0 mm	7 bar
PV13,0IB20,0	13,0 mm	20,0 mm	3,5 mm	10 bar	PV45,0IB55,0	45,0 mm	55,0 mm	5,0 mm	7 bar
PV16,0IB23,0	16,0 mm	23,0 mm	3,5 mm	10 bar	PV50,0IB60,0	50,0 mm	60,0 mm	5,0 mm	7 bar
PV16,0IB24,0	16,0 mm	24,0 mm	4,0 mm	10 bar	PV50,0IB66,0	50,0 mm	66,0 mm	8,0 mm	7 bar
PV16,0IB26,0	16,0 mm	26,0 mm	5,0 mm	10 bar					

Typical physical Properties of OPTU®flex PVC

Property	OPTU®flex PVC	OPTU®flex PVC Inner Braided
Material	soft-PVC	soft-PVC
Hardness	77° Shore A	77° Shore A
Type	transparent	transparent inner braided
Tensile Strength	ca. 17 N/mm ²	ca. 17 N/mm ²
Elongation at Break	≥350%	≥350%
Surface Resistance	ca.10 ¹¹ Ohm	ca.10 ¹¹ Ohm
Working Temperature	-10°C to +60°C (at 40°C almost pressure-less)	-10°C to +60°C

OPTUBUS GmbH – www.optubus.de – info@optubus.de

OPTUBUS believes that the information in this technical data sheet is an accurate description of the typical uses of the product. OPTUBUS, however, disclaims any liability for incidental or consequent damages, which may result from the use of the product that are beyond its control. Therefore it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficiency and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.