Optiflex PVC

Low-cost & **F**lexibility

Clear and **F**lexible **I**nner **B**raided for **P**ressure

Low-cost solution for many Applications

Weather for air, gas, water or many other media, also alcohol up to 20%, our Optiflex 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) Optiflex PVC Tubing provides a 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 if Optiflex 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

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OPTUBUS
Fluid Transfer Components

Optiflex PVC

Low-cost & **F**lexibility

Optiflex PVC Standard Sizes

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
PV3,0GK5,0	3,0 mm	5,0 mm	1,0 mm	9,5 bar
PV3,0GK6,0	3,0 mm	6,0 mm	1,5 mm	12,5 bar
PV4,0GK6,0	4,0 mm	6,0 mm	1,0 mm	7,5 bar
PV4,0GK7,0	4,0 mm	7,0 mm	1,5 mm	10,5 bar
PV4,0GK8,0	4,0 mm	8,0 mm	2,0 mm	12,5 bar
PV5,0GK7,0	5,0 mm	7,0 mm	1,0 mm	6 bar
PV5,0GK8,0	5,0 mm	8,0 mm	1,5 mm	8,5 bar
PV5,0GK9,0	5,0 mm	9,0 mm	2,0 mm	10,5 bar
PV6,0GK8,0	6,0 mm	8,0 mm	1,0 mm	5,5 bar
PV6,0GK9,0	6,0 mm	9,0 mm	1,5 mm	7,5 bar
PV6,0GK10,0	6,0 mm	10,0 mm	2,0 mm	9,5 bar
PV6,0GK12,0	6,0 mm	12,0 mm	3,0 mm	12,5 bar
PV7,0GK9,0	7,0 mm	9,0 mm	1,0 mm	4,5 bar
PV7,0GK10,0	7,0 mm	10,0 mm	1,5 mm	6,5 bar
PV7,0GK11,0	7,0 mm	11,0 mm	2,0 mm	8,5 bar
PV8,0GK10,0	8,0 mm	10,0 mm	1,0 mm	4,0 bar
PV8,0GK11,0	8,0 mm	11,0 mm	1,5 mm	6,0 bar
PV8,0GK12,0	8,0 mm	12,0 mm	2,0 mm	7,5 bar
PV8,0GK14,0	8,0 mm	14,0 mm	3,0 mm	10,5 bar
PV9,0GK11,0	9,0 mm	11,0 mm	1,0 mm	3,5 bar
PV9,0GK12,0	9,0 mm	12,0 mm	1,5 mm	5,0 bar
PV9,0GK13,0	9,0 mm	13,0 mm	2,0 mm	6,5 bar
PV9,0GK14,0	9,0 mm	14,0 mm	2,0 mm	7,0 bar
PV9,0GK16,0	9,0 mm	16,0 mm	3,5 mm	10,5 bar
PV10,0GK13,0	10,0 mm	13,0 mm	1,5 mm	4,5 bar
PV10,0GK14,0	10,0 mm	14,0 mm	2,0 mm	6,0 bar
PV10,0GK16,0	10,0 mm	16,0 mm	3,0 mm	8,5 bar
PV11,0GK15,0	11,0 mm	15,0 mm	2,0 mm	5,5 bar
PV12,0GK15,0	12,0 mm	15,0 mm	1,5 mm	4,0 bar
PV12,0GK16,0	12,0 mm	16,0 mm	2,0 mm	5,0 bar
PV12,0GK18,0	12,0 mm	18,0 mm	3,0 mm	7,5 bar

Part Number	ID	OD	Wall	short-term pressure rating at 20°C:
PV16,0GK20,0	16,0 mm	20,0 mm	2,0 mm	4,0 bar
PV16,0GK21,0	16,0 mm	21,0 mm	2,5 mm	5,0 bar
PV16,0GK22,0	16,0 mm	22,0 mm	3,0 mm	6,0 bar
PV18,0GK22,0	18,0 mm	22,0 mm	2,0 mm	3,5 bar
PV18,0GK24,0	18,0 mm	24,0 mm	3,0 mm	5,0 bar
PV19,0GK24,0	19,0 mm	24,0 mm	2,5 mm	4,5 bar
PV19,0GK25,0	19,0 mm	25,0 mm	3,0 mm	5,0 bar
PV19,0GK26,0	19,0 mm	26,0 mm	3,5 mm	5,5 bar
PV19,0GK27,0	19,0 mm	27,0 mm	4,0 mm	6,5 bar
PV20,0GK24,0	20,0 mm	24,0 mm	2,0 mm	3,0 bar
PV20,0GK26,0	20,0 mm	26,0 mm	3,0 mm	4,5 bar
PV22,0GK28,0	22,0 mm	28,0 mm	3,0 mm	4,5 bar
PV25,0GK31,0	25,0 mm	31,0 mm	3,0 mm	4,0 bar
PV25,0GK33,0	25,0 mm	33,0 mm	4,0 mm	5,0 bar
PV25,0GK34,0	25,0 mm	34,0 mm	4,5 mm	5,5 bar
PV27,0GK33,0	27,0 mm	33,0 mm	3,0 mm	3,5 bar
PV28,0GK36,0	28,0 mm	36,0 mm	4,0 mm	4,5 bar
PV30,0GK37,0	30,0 mm	37,0 mm	3,5 mm	4,0 bar
PV30,0GK38,0	30,0 mm	38,0 mm	4,0 mm	4,0 bar
PV30,0GK39,0	30,0 mm	39,0 mm	4,5 mm	4,5 bar
PV30,0GK40,0	30,0 mm	40,0 mm	5,0 mm	5,0 bar
PV32,0GK40,0	32,0 mm	40,0 mm	4,0 mm	4,0 bar
PV32,0GK42,0	32,0 mm	42,0 mm	5,0 mm	5,0 bar
PV35,0GK42,0	35,0 mm	42,0 mm	3,5 mm	3,5 bar
PV35,0GK45,0	35,0 mm	45,0 mm	5,0 mm	4,5 bar
PV38,0GK48,0	38,0 mm	48,0 mm	5,0 mm	4,0 bar
PV40,0GK48,0	40,0 mm	48,0 mm	4,0 mm	3,0 bar
PV40,0GK50,0	40,0 mm	50,0 mm	5,0 mm	4,0 bar
PV45,0GK55,0	45,0 mm	55,0 mm	5,0 mm	3,5 bar
PV50,0GK60,0	50,0 mm	60,0 mm	5,0 mm	3,0 bar
PV55,0GK64,0	55,0 mm	64,0 mm	4,5 mm	2,5 bar
PV60,0GK70,0	60,0 mm	70,0 mm	5,0 mm	2,5 bar

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					

Optiflex 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 Optiflex PVC

Property	Optiflex PVC	Optiflex 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