



Pressure- Abrasion- and UV-Resistant Tubing



Pneumatic Hose with good Chemical Resistance and easy to Install

Resistance against aliphatic hydrocarbons and most lubricants, oils, greases, oxygen and ozone.

High flexibility even at cold temperatures provides small bend radius and space-saving.

Environmentally compatible and Long Life

OPTU®flex Polyurethan-Tubing is sustainable. It is much more resistant to abrasion than Rubber and PVC and provides much higher service life, especially when used as conveyor of abrasive media or solid materials.

High mechanical resilience and UV-resistance provide life-prolonging and saves time for exchange of Tubing.

Transparency and smooth surface

Our OPTU®flex Polyurethan-Tubing is available crystal-clear and has an extra smooth inner surface to prevent accumulation and makes the Flow visible.

Specific Qualities and Custom-Made Products mostly at low order quantities

Aside a big variety of Standard-Colors, OPTU®flex PUR is in special colors available. UV-stabilized for longer Life, medical qualities, special dimensions,... please send us your request.



Features and Benefit

- abrasion resistant
- good chemical Resistance
- small bend radius
- mechanical resilience
- buckling resistance
- tear strength
- UV-stabilized
- Aging-, Weather- and Ozone resistant
- high elasticity
- flexible at low temperature
- good damping behavior

Typical Applications

- Pneumatic-Lines
- compressed air
- conveyor
- Measurement and Regulation
- Machine Construction
- Automation and Assembly Lines

OPTU®flex Polyurethan Standard Sizes

Part Number	color	ID	OD	Wall	Min. Bend-radius	Max. Working Pressure 20°C (68°F)	Max. Working Pressure 60°C (140°F)
PU2,0NA4,0	natural	2,0 mm	4,0 mm	1,0 mm	10 mm	21 bar	13 bar
PU2,0BL4,0	blue	2,0 mm	4,0 mm	1,0 mm	10 mm	21 bar	13 bar
PU2,0SW4,0	black	2,0 mm	4,0 mm	1,0 mm	10 mm	21 bar	13 bar
PU2,0GR4,0	grey	2,0 mm	4,0 mm	1,0 mm	10 mm	21 bar	13 bar
PU2,5NA4,0	natural	2,5 mm	4,0 mm	0,75 mm	13 mm	15 bar	9,3 bar
PU2,5BL4,0	blue	2,5 mm	4,0 mm	0,75 mm	13 mm	15 bar	9,3 bar
PU2,5SW4,0	black	2,5 mm	4,0 mm	0,75 mm	13 mm	15 bar	9,3 bar
PU2,5GR4,0	grey	2,5 mm	4,0 mm	0,75 mm	13 mm	15 bar	9,3 bar
PU2,7NA4,0	natural	2,7 mm	4,0 mm	0,65 mm	14 mm	12 bar	7,4 bar
PU2,7BL4,0	blue	2,7 mm	4,0 mm	0,65 mm	14 mm	12 bar	7,4 bar
PU2,7SW4,0	black	2,7 mm	4,0 mm	0,65 mm	14 mm	12 bar	7,4 bar
PU2,7GR4,0	grey	2,7 mm	4,0 mm	0,65 mm	14 mm	12 bar	7,4 bar
PU3,0NA4,3	natural	3,0 mm	4,3 mm	0,65 mm	14 mm	12 bar	7,4 bar
PU3,0BL4,3	blue	3,0 mm	4,3 mm	0,65 mm	14 mm	12 bar	7,4 bar
PU3,0SW4,3	black	3,0 mm	4,3 mm	0,65 mm	14 mm	12 bar	7,4 bar
PU3,0GR4,3	grey	3,0 mm	4,3 mm	0,65 mm	14 mm	12 bar	7,4 bar
PU3,0NA5,0	natural	3,0 mm	5,0 mm	1,0 mm	12 mm	16 bar	9,9 bar
PU3,0BL5,0	blue	3,0 mm	5,0 mm	1,0 mm	12 mm	16 bar	9,9 bar
PU3,0SW5,0	black	3,0 mm	5,0 mm	1,0 mm	12 mm	16 bar	9,9 bar
PU3,0GR5,0	grey	3,0 mm	5,0 mm	1,0 mm	12 mm	16 bar	9,9 bar
PU4,0NA6,0	natural	4,0 mm	6,0 mm	1,0 mm	20 mm	14 bar	8,7 bar
PU4,0BL6,0	blue	4,0 mm	6,0 mm	1,0 mm	20 mm	14 bar	8,7 bar
PU4,0SW6,0	black	4,0 mm	6,0 mm	1,0 mm	20 mm	14 bar	8,7 bar
PU4,0GR6,0	grey	4,0 mm	6,0 mm	1,0 mm	20 mm	14 bar	8,7 bar
PU5,0NA8,0	natural	5,0 mm	8,0 mm	1,5 mm	25 mm	15 bar	9,3 bar
PU5,0BL8,0	blue	5,0 mm	8,0 mm	1,5 mm	25 mm	15 bar	9,3 bar
PU5,0SW8,0	black	5,0 mm	8,0 mm	1,5 mm	25 mm	15 bar	9,3 bar
PU5,0GR8,0	grey	5,0 mm	8,0 mm	1,5 mm	25 mm	15 bar	9,3 bar
PU5,5NA8,0	natural	5,5 mm	8,0 mm	1,25 mm	30 mm	12 bar	7,4 bar
PU5,5BL8,0	blue	5,5 mm	8,0 mm	1,25 mm	30 mm	12 bar	7,4 bar
PU5,5SW8,0	black	5,5 mm	8,0 mm	1,25 mm	30 mm	12 bar	7,4 bar
PU5,5GR8,0	grey	5,5 mm	8,0 mm	1,25 mm	30 mm	12 bar	7,4 bar
PU6,0NA8,0	natural	6,0 mm	8,0 mm	1,0 mm	35 mm	12 bar	7,4 bar
PU6,0BL8,0	blue	6,0 mm	8,0 mm	1,0 mm	35 mm	12 bar	7,4 bar
PU6,0RT8,0	red	6,0 mm	8,0 mm	1,0 mm	35 mm	12 bar	7,4 bar

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Part Number	color	ID	OD	Wall	Min. Bend-radius	Max. Working Pressure 20°C (68°F)	Max. Working Pressure 60°C (140°F)
PU6,0SW8,0	black	6,0 mm	8,0 mm	1,0 mm	35 mm	12 bar	7,4 bar
PU6,0GN8,0	green	6,0 mm	8,0 mm	1,0 mm	35 mm	12 bar	7,4 bar
PU6,0GL8,0	yellow	6,0 mm	8,0 mm	1,0 mm	35 mm	12 bar	7,4 bar
PU6,0GR8,0	grey	6,0 mm	8,0 mm	1,0 mm	35 mm	12 bar	7,4 bar
PU7,5NA10,0	natural	7,5 mm	10,0 mm	1,25 mm	50 mm	9 bar	5,5 bar
PU7,5BL10,0	blue	7,5 mm	10,0 mm	1,25 mm	50 mm	9 bar	5,5 bar
PU7,5SW10,0	black	7,5 mm	10,0 mm	1,25 mm	50 mm	9 bar	5,5 bar
PU7,5GR10,0	grey	7,5 mm	10,0 mm	1,25 mm	50 mm	9 bar	5,5 bar
PU8,0NA10,0	natural	8,0 mm	10,0 mm	1,0 mm	55 mm	8 bar	5,0 bar
PU8,0BL10,0	blue	8,0 mm	10,0 mm	1,0 mm	55 mm	8 bar	5,0 bar
PU8,0SW10,0	black	8,0 mm	10,0 mm	1,0 mm	55 mm	8 bar	5,0 bar
PU8,0GR10,0	grey	8,0 mm	10,0 mm	1,0 mm	55 mm	8 bar	5,0 bar
PU8,0NA12,0	natural	8,0 mm	12,0 mm	2,0 mm	50 mm	13 bar	8,1 bar
PU8,0BL12,0	blue	8,0 mm	12,0 mm	2,0 mm	50 mm	13 bar	8,1 bar
PU8,0SW12,0	black	8,0 mm	12,0 mm	2,0 mm	50 mm	13 bar	8,1 bar
PU8,0GR12,0	grey	8,0 mm	12,0 mm	2,0 mm	50 mm	13 bar	8,1 bar
PU9,0NA11,5	natural	9,0 mm	11,5 mm	1,25 mm	55 mm	8 bar	5,0 bar
PU9,0BL11,5	blue	9,0 mm	11,5 mm	1,25 mm	55 mm	8 bar	5,0 bar
PU9,0SW11,5	black	9,0 mm	11,5 mm	1,25 mm	55 mm	8 bar	5,0 bar
PU9,0GR11,5	grey	9,0 mm	11,5 mm	1,25 mm	55 mm	8 bar	5,0 bar
PU9,0NA12,0	natural	9,0 mm	12,0 mm	1,5 mm	55 mm	10 bar	6,2 bar
PU9,0BL12,0	blue	9,0 mm	12,0 mm	1,5 mm	55 mm	10 bar	6,2 bar
PU9,0SW12,0	black	9,0 mm	12,0 mm	1,5 mm	55 mm	10 bar	6,2 bar
PU9,0GR12,0	grey	9,0 mm	12,0 mm	1,5 mm	55 mm	10 bar	6,2 bar
PU11,0NA14,0	natural	11,0 mm	14,0 mm	1,5 mm	70 mm	8 bar	5,0 bar
PU11,0BL14,0	blue	11,0 mm	14,0 mm	1,5 mm	70 mm	8 bar	5,0 bar
PU11,0SW14,0	black	11,0 mm	14,0 mm	1,5 mm	70 mm	8 bar	5,0 bar
PU11,0GR14,0	grey	11,0 mm	14,0 mm	1,5 mm	70 mm	8 bar	5,0 bar
PU12,0NA15,0	natural	12,0 mm	15,0 mm	1,5 mm	80 mm	7 bar	4,3 bar
PU12,0BL15,0	blue	12,0 mm	15,0 mm	1,5 mm	80 mm	7 bar	4,3 bar
PU12,0SW15,0	black	12,0 mm	15,0 mm	1,5 mm	80 mm	7 bar	4,3 bar
PU12,0GR15,0	grey	12,0 mm	15,0 mm	1,5 mm	80 mm	7 bar	4,3 bar

Typical physical Properties of OPTU®flex Polyurethan

Property	Value
Hardness	98° Shore A
Working Temperature	-40°C to +85°C