



A:S:S®



Antistatic PUR tubing
with optimum mechanical properties



PAPUREX

Every inch a quality product
www.persluchtslang.nl

Antistatic PUR Tubing

acc. to EU Directive 94/9/EC (ATEX)

A:S:S® is the special polyurethane (PUR) tubing for all applications where antistatic charging must be prevented. **A:S:S**® is therefore used for manufacturing electronic components, in the coating industry, in explosion-proof areas, in mining or for conveying and sorting components, to name just a few examples. **A:S:S**® can be employed as pneumatic tubing, feed or supply tubing (e.g. for cooling).

Since tubing is not a component within the meaning of the ATEX Directive 94/9/EC, no certificate of conformity with this directive can be issued.

However, we have had **A:S:S**® examined by TÜV Product Service GmbH in Eschborn, which has proved the unrestricted conformity of our tubing for all fields of application according to the ATEX Directive 94/9/EC in the form of a technical report, which we will be pleased to provide on request.

The major product benefits at a glance:

- high antistatic protection with surface resistivity of $\leq 10^4 \Omega$.
- high compressive strength
- favourable cost due to long service life
- calibrated outside diameter, fits all conventional plug-ins made of metal
- resistant to microbes
- resistant to hydrolysis
- enables very narrow bending radii
- very good UV resistance
- suitable for vacuum applications

A:S:S® is state-of-the-art technology »Made in Germany«. A proven and certified quality management according to DIN EN ISO 9001 guarantees a top quality product.

Sales Range:

The complete range up to an outside diameter of 10 mm is available as standard. Smaller quantities are usually available from stock. Larger quantities (from approx. 1,000 m) can usually be delivered within 10 days.

The individual tube dimensions of our standard range are (outside diameter = OD in mm):

O.D. 4; O.D. 5, O.D. 6, O.D. 8, O.D. 10

Special sizes can also be manufactured. We will be pleased to advise you.

Ring length: 50 m (other lengths on request)

Further processing: Cut-to-size sections can be provided from 0.1 m to 2 m
Delivery on reels is possible.
Individual order assembly is also possible.

We will be pleased to provide data sheets on the individual sizes on request.

Abmessung Size 4 x 2,5 mm
A:S:S® – AntiStatischer-Schlauch antistatic tubing

elektrisch leitfähig *conductive*, Oberflächenwiderstand *surface resistance* $\leq 10^6 \Omega$; Material: PUR *polyurethane*
 „ausgezeichnete Hydrolyseeigenschaften und beständig gegen Mikroorganismen *hydrolysisproof and resistant against microbes*“

Maße *Measures*:

$D_1 = 4,00 \text{ mm} \quad \pm 0,1$

$D_2 = 2,50 \text{ mm}$

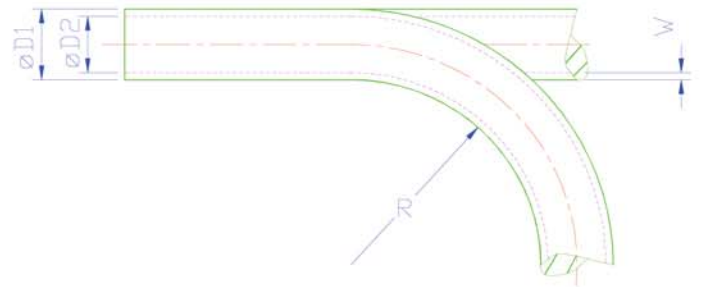
$W = 0,75 \text{ mm} \quad \pm 0,1$

Zulässiger kleinster Biegeradius

Minimum bend radius:

$R = 9 \text{ mm}$

Gewicht *weight*: **9,04 g/ m** (errechnet value calculated)



Mindestberstdruck *Minimum burst pressure (bar)*
 bei 20 °C/ at 20 °C:



(Werte nach Werksnorm ermittelt values according to our examination standard)

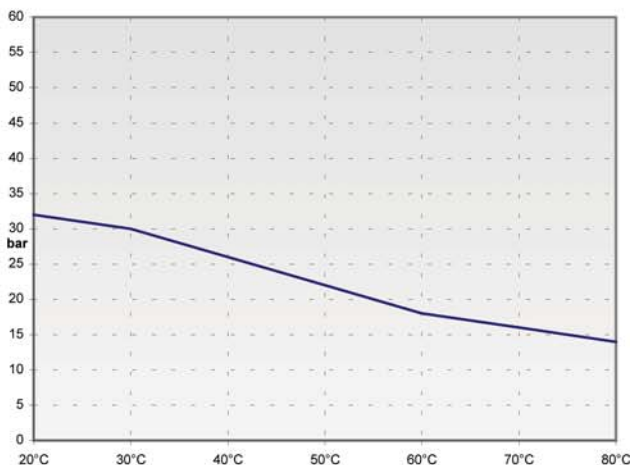
Schlauchfarbe *Tubing colour*:

schwarz black ●

Kennzeichnungsfarben *Marking colours*:

Standard = **weiß white**

Belastungsgrenze in Abhängigkeit zur Temperatur
Limit of pressure load depending on temperature



(Werte nach Werksnorm ermittelt values according to our examination standard)

Physikalische Materialeigenschaften

Physical qualities of the material:

(gemäß Angaben des Materialherstellers according to technical data of the producer)

	Maßeinheit <i>Unit of measure</i>	Norm <i>standard</i>	Wert <i>value</i>
Härte hardness	Shore A	DIN 53505	–
	Shore D	DIN 53505	52
Zugfestigkeit tensile strength	MPa	DIN 53504	25
Abrieb abrasion	mm ³	DIN 53516	66
Dichte density	g/cm ³	DIN 53479	1,18
Kerbschlag- zähigkeit impact value (Charpy) +23 °C	kJ/m ²	DIN 53453	kein Bruch <i>no break</i>
			-30 °C

Abmessung Size 5 x 3,1 mm
A:S:S® – AntiStatischer-Schlauch antistatic tubing

elektrisch leitfähig *conductive*, Oberflächenwiderstand *surface resistance* $\leq 10^6 \Omega$; Material: PUR *polyurethane*
 „ausgezeichnete Hydrolyseeigenschaften und beständig gegen Mikroorganismen *hydrolysisproof and resistant against microbes*“

Maße *Measures*:

$D_1 = 5,00 \text{ mm} \quad \pm 0,1$

$D_2 = 3,10 \text{ mm}$

$W = 0,95 \text{ mm} \quad \pm 0,1$

Zulässiger kleinster Biegeradius

Minimum bend radius:

$R = 12 \text{ mm}$

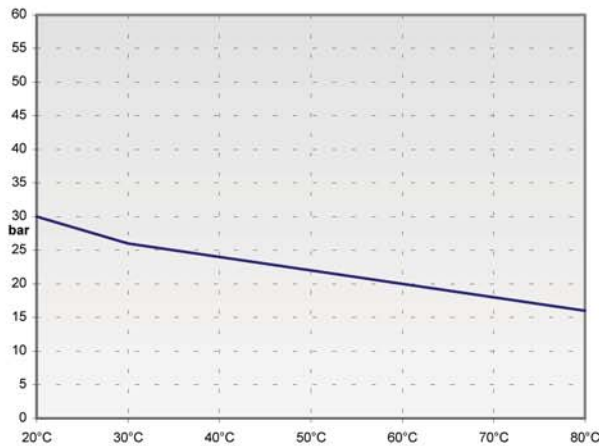
Gewicht *weight*: **14,27 g/ m** (errechnet *value calculated*)

Mindestberstdruck *Minimum burst pressure (bar)*
 bei 20°C/ at 20°C:

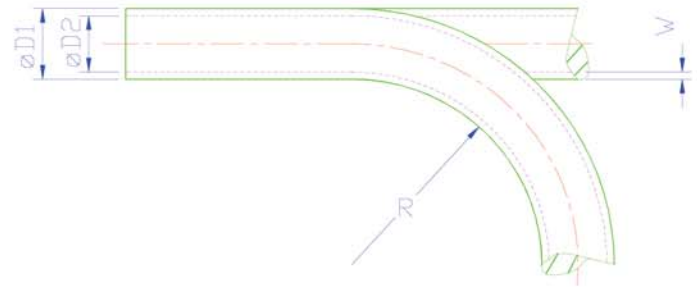


(Werte nach Werksnorm ermittelt *values according to our examination standard*)

Belastungsgrenze in Abhängigkeit zur Temperatur
Limit of pressure load depending on temperature



(Werte nach Werksnorm ermittelt *values according to our examination standard*)



Schlauchfarbe *Tubing colour*:

schwarz black ●

Kennzeichnungsfarben *Marking colours*:

Standard = **weiß white**

Physikalische Materialeigenschaften

Physical qualities of the material:

(gemäß Angaben des Materialherstellers *according to technical data of the producer*)

	Maßeinheit <i>Unit of measure</i>	Norm <i>standard</i>	Wert <i>value</i>
Härte <i>hardness</i>	Shore A	DIN 53505	–
	Shore D	DIN 53505	52
Zugfestigkeit <i>tensile strength</i>	MPa	DIN 53504	25
Abrieb <i>abrasion</i>	mm ³	DIN 53516	66
Dichte <i>density</i>	g/cm ³	DIN 53479	1,18
Kerbschlag- zähigkeit <i>impact value</i> (Charpy) +23°C	kJ/m ²	DIN 53453	kein Bruch <i>no break</i>
			-30°C

Abmessung Size 6 x 3,9 mm
A:S:S® – AntiStatischer-Schlauch antistatic tubing

elektrisch leitfähig *conductive*, Oberflächenwiderstand *surface resistance* $\leq 10^6 \Omega$; Material: PUR *polyurethane*
 „ausgezeichnete Hydrolyseeigenschaften und beständig gegen Mikroorganismen *hydrolysisproof and resistant against microbes*“

Maße *Measures*:

$D_1 = 6,00 \text{ mm}$ +/- 0,1

$D_2 = 3,90 \text{ mm}$

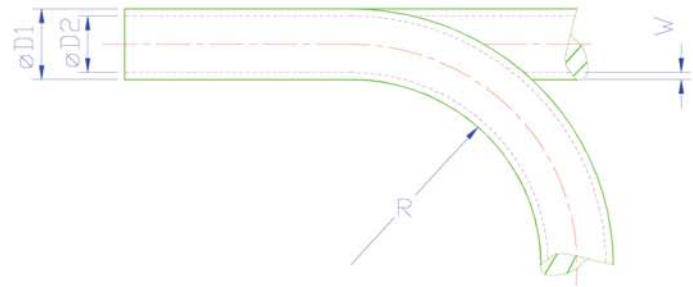
$W = 1,05 \text{ mm}$ +/- 0,05

Zulässiger kleinster Biegeradius

Minimum bend radius:

$R = 15 \text{ mm}$

Gewicht *weight*: **19,28 g/ m** (errechnet *value calculated*)



Mindestberstdruck *Minimum burst pressure (bar)*
 bei 20°C/ at 20°C:



(Werte nach Werksnorm ermittelt *values according to our examination standard*)

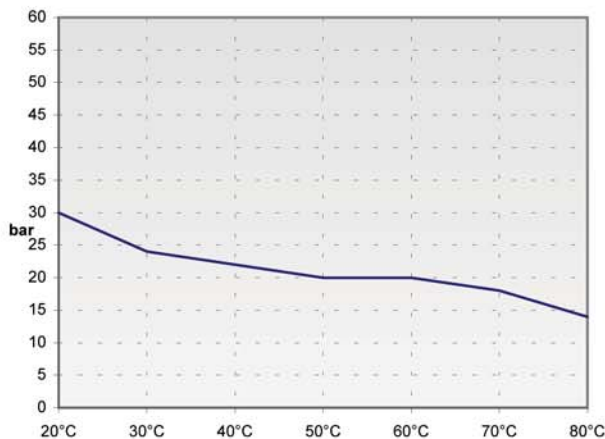
Schlauchfarbe *Tubing colour*:

schwarz black ●

Kennzeichnungsfarben *Marking colours*:

Standard = **weiß white**

Belastungsgrenze in Abhängigkeit zur Temperatur
Limit of pressure load depending on temperature



(Werte nach Werksnorm ermittelt *values according to our examination standard*)

Physikalische Materialeigenschaften

Physical qualities of the material:

(gemäß Angaben des Materialherstellers *according to technical data of the producer*)

	Maßeinheit <i>Unit of measure</i>	Norm <i>standard</i>	Wert <i>value</i>
Härte <i>hardness</i>	Shore A	DIN 53505	--
	Shore D	DIN 53505	52
Zugfestigkeit <i>tensile strength</i>	MPa	DIN 53504	25
Abrieb <i>abrasion</i>	mm ³	DIN 53516	66
Dichte <i>density</i>	g/cm ³	DIN 53479	1,18
Kerbschlag- zähigkeit <i>impact value</i> (Charpy) +23°C	kJ/m ²	DIN 53453	kein Bruch <i>no break</i>
			-30°C

Abmessung Size 8 x 5,7 mm
A:S:S® – AntiStatischer-Schlauch antistatic tubing

elektrisch leitfähig *conductive*, Oberflächenwiderstand *surface resistance* $\leq 10^6 \Omega$; Material: PUR *polyurethane*
 „ausgezeichnete Hydrolyseigenschaften und beständig gegen Mikroorganismen *hydrolysisproof and resistant against microbes*“

Maße *Measures*:

$D_1 = 8,00 \text{ mm} \quad \pm 0,1$

$D_2 = 5,70 \text{ mm}$

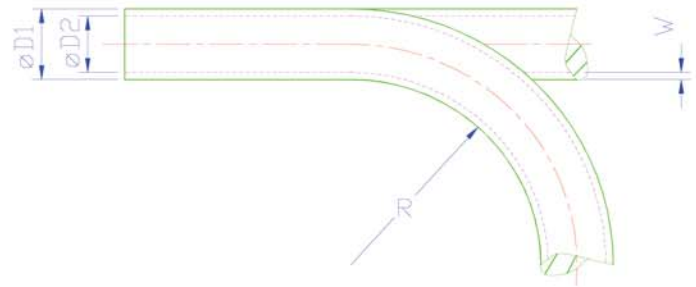
$W = 1,15 \text{ mm} \quad \pm 0,05$

Zulässiger kleinster Biegeradius

Minimum bend radius:

$R = 28 \text{ mm}$

Gewicht *weight*: **29,22 g/ m** (*errechnet value calculated*)

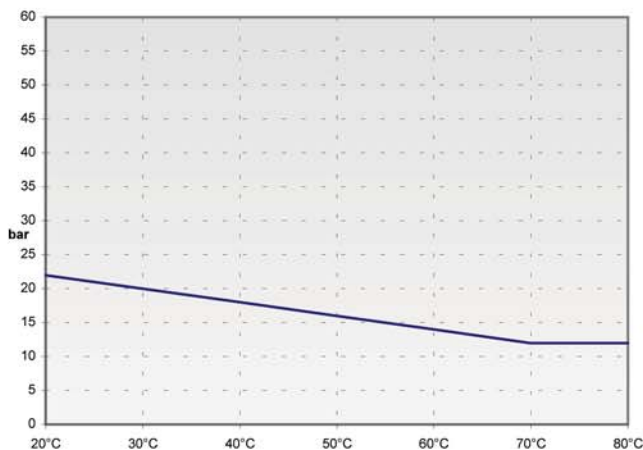


Mindestberstdruck *Minimum burst pressure (bar)*
 bei 20°C/ at 20°C:



(Werte nach Werksnorm ermittelt *values according to our examination standard*)

Belastungsgrenze in Abhängigkeit zur Temperatur
Limit of pressure load depending on temperature



(Werte nach Werksnorm ermittelt *values according to our examination standard*)

Schlauchfarbe *Tubing colour*:

schwarz black ●

Kennzeichnungsfarben *Marking colours*:

Standard = **weiß white**

Physikalische Materialeigenschaften

Physical qualities of the material:

(gemäß Angaben des Materialherstellers *according to technical data of the producer*)

	Maßeinheit <i>Unit of measure</i>	Norm <i>standard</i>	Wert <i>value</i>
Härte hardness	Shore A	DIN 53505	--
	Shore D	DIN 53505	52
Zugfestigkeit tensile strength	MPa	DIN 53504	25
Abrieb abrasion	mm ³	DIN 53516	66
Dichte density	g/cm ³	DIN 53479	1,18
Kerbschlag- zähigkeit impact value (Charpy) +23°C	kJ/m ²	DIN 53453	kein Bruch <i>no break</i>
			-30°C

Abmessung Size 10 x 7,5 mm
A:S:S® – AntiStatischer-Schlauch antistatic tubing

elektrisch leitfähig *conductive*, Oberflächenwiderstand *surface resistance* $\leq 10^6 \Omega$; Material: PUR *polyurethane*
 „ausgezeichnete Hydrolyseigenschaften und beständig gegen Mikroorganismen *hydrolysisproof and resistant against microbes*“

Maße *Measures*:

$D_1 = 10,00 \text{ mm} + 0,15 / -0,1$

$D_2 = 7,50 \text{ mm}$

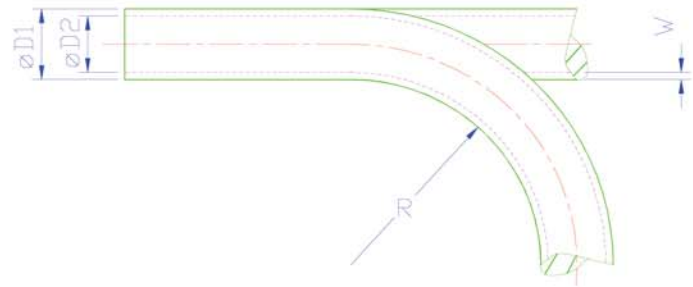
$W = 1,25 \text{ mm} + 0,1$

Zulässiger kleinster Biegeradius

Minimum bend radius:

$R = 35 \text{ mm}$

Gewicht *weight*: **40,58 g/ m** (errechnet value calculated)

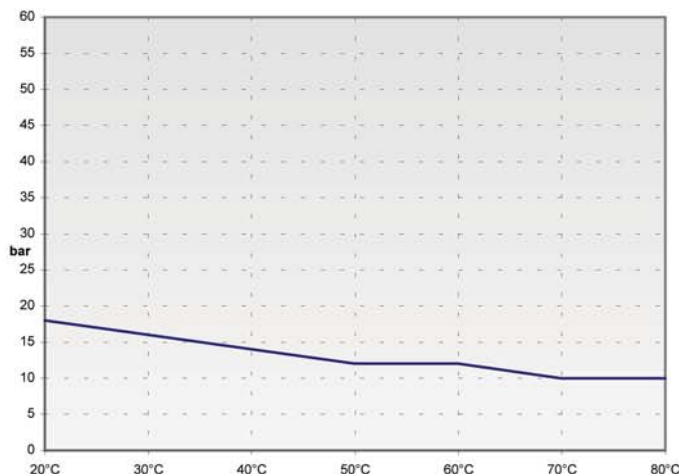


Mindestberstdruck *Minimum burst pressure (bar)*
 bei 20°C/ at 20°C:



(Werte nach Werksnorm ermittelt values according to our examination standard)

Belastungsgrenze in Abhängigkeit zur Temperatur
Limit of pressure load depending on temperature



(Werte nach Werksnorm ermittelt values according to our examination standard)

Schlauchfarbe *Tubing colour*:

schwarz black ●

Kennzeichnungsfarben *Marking colours*:

Standard = **weiß white**

Physikalische Materialeigenschaften

Physical qualities of the material:

(gemäß Angaben des Materialherstellers according to technical data of the producer)

	Maßeinheit <i>Unit of measure</i>	Norm <i>standard</i>	Wert <i>value</i>
Härte hardness	Shore A	DIN 53505	--
	Shore D	DIN 53505	52
Zugfestigkeit tensile strength	MPa	DIN 53504	25
Abrieb abrasion	mm ³	DIN 53516	66
Dichte density	g/cm ³	DIN 53479	1,18
Kerbschlag- zähigkeit impact value (Charpy) +23°C	kJ/m ²	DIN 53453	kein Bruch <i>no break</i>
			-30°C