



## Polderflex PUR Food A

Article Master No.: 000189

**PU Suction & Transport Hose, extremely pressure/vacuum-proof, smooth inner and outer linings, permanently antistatic, food-grade quality acc. to EU 10/2011 and FDA**



antistatic



hydrolysis  
resistant



food  
approved



microbe  
resistant



transparen  
t



moderatel  
y flexible



heavy



very  
pressure  
resistant

### Product Details

#### Construction / Material

- Type of construction: profile extruded hose with metal spiral
- Spiral Design: made from stainless steel wire
- Material of the spiral: stainless steel 1.4310, spring steel
- Execution of the wall: made of pure material, made of specified material, addition of a non-migrating permanent antistatic agent, wall thickness 3 - 5 mm, depending on DN
- Material of the wall: Polyether Polyurethane
- Specifications of the wall: surface resistance  $R_0 < 10^9$  Ohm, material complies with food regulations FDA 21 CFR § 177.2600 and 21 CFR § 177.1680, approved for direct food contact category E, according to EU Directive 1935/2004, 10/2011 and its latest amending Directives

#### Properties

- Specifications of the product: according to TRGS 727 and ATEX 2014/34 EU, with grounding on both sides of the spiral for aspirative and pneumatic conveying of non-flammable dusts and bulk materials in zone 22. For conveying gases and liquids with low conductivity in zone 2., manufacturing process according to GMP EC 2023/2006
- Chemical Properties: microbe-resistant, odourless and tasteless, good UV resistance, halogen-free, good resistance to chemicals, good ozone resistance, hydrolysis resistant, plasticiser-free
- Flexibility: moderately flexible

- **Physical Properties:** permanently antistatic
- **Weight:** heavy
- **Pressure Resistance:** very pressure resistant
- **Colour:** transparent
- **Other:** high vacuum and good pressure resistance, largely smooth inside

### Operating Temperature

- **Temperature Range:** -40 - 90
- **short-term maximum temperature:** peaks to 125 °C

### Delivery Information

- **Delivery, type of production:** various nominal widths in standard lengths are available ex-production, individual nominal widths and lengths also ex-stock

### Application Areas

- **Areas of application:** Bulk & Construction, Chemistry, Food & Pharma, Plastics

### Customizing Options

- **optional item modification (on request):** other lengths, other nominal widths, other colours, with customer-specific imprint

## Article Variants

Extended Article Number	Article number	Nominal Size (DN) mm	Outer diameter mm	Bending radius* mm	Weight kg/m	Operating pressure bar	Negative pressure bar	Max. Production length m	Stock Lengths m
000189:32:x	000189	32	41,5	160	0.88	5.75	0.93	20.00	/
000189:38:x	000189	38	47,5	190	1.03	5.63	0.93	20.00	/
000189:40:x	000189	40	49,5	200	1.07	5.50	0.93	20.00	/
000189:51:x	000189	51	62,5	250	1.25	5.25	0.93	20.00	2.50, 5, 7.50, 10
000189:60:x	000189	60	71,5	300	1.44	5.13	0.93	20.00	/
000189:65:x	000189	65	76,5	325	1.56	5.10	0.93	20.00	5, 10
000189:70:x	000189	70	81,5	350	1.77	5.05	0.93	20.00	/
000189:76:x	000189	76	87,5	380	1.92	5.00	0.93	20.00	10
000189:80:x	000189	80	91,5	400	2.01	4.50	0.88	20.00	10
000189:100:x	000189	100	111	580	3.00	4.16	0.86	20.00	/
000189:102:x	000189	102	113	600	3.10	4.13	0.86	20.00	2.50, 5, 7.50, 10
000189:127:x	000189	127	138,5	700	3.85	3.25	0.64	20.00	/
000189:150:x	000189	150	162	792	4.53	2.22	0.44	20.00	/
000189:152:x	000189	152	164	800	4.59	2.13	0.42	20.00	/

All data refer to a medium and ambient temperature of +20°C.

Specification of the bending radius related to the inside of the hose bend

Subject to technical changes and colour deviations

## Delivery Variants

Available in other lengths, other nominal diameters, with customer-specific customer-specific imprint.

## Disposal instructions

After use, the product must be disposed of in accordance with the legal regulations applicable in the user's region (in Germany in accordance with the applicable Waste Catalogue Ordinance (AVV)).

## Possible Connection Elements



**Hose Clamp with Bolts**  
special clamp for fastening medium and heavy spiral hoses to connection pipes on mobile and stationary units



**Hose Clamp with Bolts, Steel quality W4, stainless steel 1.4301**  
Special clamp for fastening medium and heavy spiral hoses to connection pipes on mobile and stationary units

### Individual consultation

We offer consultation by phone:  
**+49 209 97077-112**

Product requests via  
[masterflex.de/en](https://masterflex.de/en)

### Address Headquarters

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