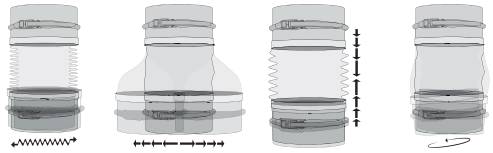
Product specification sheet

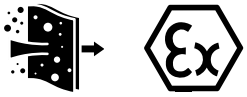
- Applicable for screening & separation equipment, feeding & dosing systems, bulk handling & storage, conveying & transport systems, processing & thermal equipment, flow control components, air handling systems, and flexible protective components.
- PU-AS10 is a clear, antistatic, high-gloss, ether-based thermoplastic Poly Urethane that does not fracture under constant flexing, as it has no memory.
- Great chemical resistance for CIP and cleaning processes
- Excellent abrasion resistance
- Consistent thickness, step-free overlap welding

Tags





Vibration | Oscillation | Compression | Tumbling



Dust tight | ATEX compliant

Food contact compliant

Physical properties

Material	Antistatic Ether-based thermoplastic Poly Urethane
Color	Transparent
Surface finish	Gloss/Gloss
Surface roughness	Ra < 0,1µm
Wall thickness	1,00mm / 0.0394 inch (±10%)
Hardness	87° Shore A
Areal density	1,12 kg/m²
Tensile strength	51,7 MPa
Tear resistance	87,3 N/mm
Surface resistance	≤ 8,46 × 10⁹ Ω
Volume resistance	-
Pressure resistance *(Up to 90°C/195°F)*	0,34 Bar 5.0 PSI
Maximum elongation	500%
Continuous operating temperature	-40°C to 90°C -40°F to 195°F
Maximum surge temperature	120°C/248°F
Low temperature flexibility	Good
Air permeability	0
Blackout characteristics	14,4% 30.770 lux of 35.947 lux
Type of material	Sheet on roll Roll width: 1.500mm Roll length: 50.000mm

Compliance

United States	FDA 21 CFR 177.2600
European Community	EC 1935/2004 EC 2023/2006 EC 10/2011 EC 1907/2006 (REACH)

Production methods

PU-AS10 sheets will be welded together, using one of the following welding methods.

- High Frequency welding (HF-welding)
- Heat contact welding (HC-welding)
- Hot air welding (HA-welding)

To create parts with the correct measurement, the material can be cut using either a stainless steel knive or water jet

ATEX compliance

The table below shows the maximum possible length when the product is ungrounded and without rings.

Airspeed	Minimum Ignition Energy	Maximum length	ATEX zone
< 2 m/s	> 1 mJ	1000 mm	20, 21, 22
> 2 m/s	> 1 mJ	1000 mm	20, 21, 22

Product examples

Below you will find images of products that are made with PU-AS10, showing just a few of the nearly endless possibilities the material offers. For questions or more information about the possibilities, please contact us!



Compliances

- Abrasion Resistance
- Regulation (EC) No. 1935/2004
- ATEX compliant
- FDA 21 CFR 177.2600
- Grounding/earthing optional
- Fans and air distribution
- Clean in place (CIP)
- Sifters and vibratory equipment
- Non porous hygiene surface

Industries

- Dairy
- Herbs and spices
- Grains, wheat and cereal
- Paint, pigment and lacquer
- Pharmaceutical
- Coffee
- Recycling
- Infant formula
- Battery
- Chemicals
- Sugar