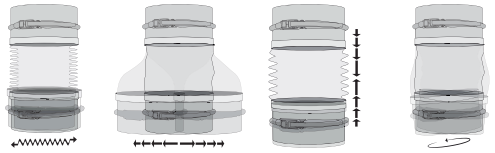
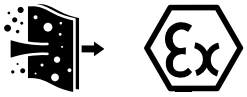
Product specification sheet

- 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-UF1 is a clear, 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









Physical properties

Material	Ether-based thermoplastic Poly Urethane
Color	Transparant
Surface finish	Gloss/Gloss
Surface roughness	Ra < 0,1µm
Wall thickness	1,00mm / 0.0394 inch
Areal density	1,12 kg/m^2
Hardness	86° Shore A
Tensile strength	50 MPa
Tear resistance	55 N/mm
Surface resistance	5 × 10^{12} Ω
Volume resistance	3 × 10^{11} Ωm
Pressure resistance	-0,2 to 0,34 Bar -2.9 to 4.9 PSI
Maximum elongation	600%
Operating temperature	-40°C to 90°C -40°F to 194°F
Maximum surge temperature	120°C/248°F
Low temperature flexibility	Good
Air permeability	0
Black-out characteristic	11,9% 31660 lux /35947 lux
Type of material	Sheet on roll Roll width: 1.500mm Roll length: 50.000mm

Production methods

Poly Urethane materials 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 knife or water jet

Compliance

United States	FDA 21 CFR 177.1680
European Community	EC 1935/2004 EC 2023/2006 EC 10/2011 EU 2023/1627 EU 2020/1245 EU 2025/351 EU 2026/250 EC 1907/2006 (REACH) EC 2019/1338 EU 1169/2011 annex II
China	GB 4806.7-2016 GB 9685-2016 GB 5009.156 GB 31604.1 - 2015

ATEX compliance

The table below shows the maximum possible length when the product is ungrounded and without rings. Please check resitrictions for non-grounded rings.

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

Product examples

Below you will find images of products that are made with PU-UF1, 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 177.1680
- Grounding/earthing optional
- GB 4806.1
- Clean in place (CIP)
- Explosion pressure resistance tested
- Non porous hygiene surface
- Sifters and vibratory equipment
- Fans and air distribution

Industries

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