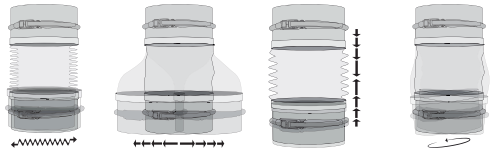
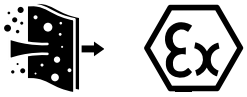
# Product specification sheet

- 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-UF3 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 (cloudy) |
| **Surface finish** | Gloss/Gloss |
| **Surface roughness** | Ra < 0,1µm |
| **Wall thickness** | 1,00mm / 0.0394 inch |
| **Hardness** | 87° Shore A |
| **Areal density** | 1,15 kg/m$^2$ |
| **Tensile strength** | 60 MPa |
| **Tear resistance** | 66 N/mm |
| **Surface resistance** | 5×10$^{12}$ Ω |
| **Volume resistance** | 3×10$^{11}$ Ωm |
| **Pressure resistance** | -0,2 to 0,34 Bar<br>-2.9 to 4.9 PSI |
| **Maximum elongation** | 550% |
| **Operating temperature** | -40°C to 90°C<br>-40°F to 194°F |
| **Maximum surge temperature** | 120°C/248°F |
| **Low temperature flexibility** | Good |
| **Air permeability** | 0 |
| **Black-out characteristic** | 14% 30900 lux / 35947 lux |
| **Type of material** | Sheet on roll<br>Roll width: 1.500mm<br>Roll length: 50.000mm |

## Compliance

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

## 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

## 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 | 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-UF3, 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
- Recycli
- Infant formula
- Battery
- Chemicals
- Sugar