Technical Data Sheet

PU-UF1

A Clear high gloss finish on both sides Poly Ether Urethane Thermo plastic film.
Having no memory PU-UF1 will not fracture as a result of constant flexing.

Advantages

- Superior flexibility
- Excellent abrasion resistance
- Clear Transparent high clarity
- Smooth welded seams
- Superior chemical resistance for CIP washing
- Great aging resistance
- Non porous
- Smooth surface
- No material degradation
- Smooth welded seam
- Excellent abrasion resistance
- CIP resistant

Applications

Stationary, Vibratory, Gyratory, Sifters, Screeners, Feeders, Spray driers, Fluid Bed, Static Cool Bed, Bin dischargers, Hoppers, Conveyors, Packing equipment, Storage silos, Screw conveyors, Valves, butterfly valves, Rotary valves, Tanks, Silo's, any sort of product handling equipment Air ducting , Fans, Inflatable seals, Covers, Outside protection sleeves, Bellows, Load cell (high volume, weight and capacity), Harmonica's, Telescopic applications, Vacuum formed shapes.

General Properties

Name :	PU-UF1
Description :	Poly Ether Urethane
Color :	Clear Transparent
Surface :	Gloss / Gloss (both sides)
Surface Roughness :	-
Wall Thickness :	1,00mm / 0.0393 Inch (+/-10%)
Hardness :	86° Shore A
Tensile Strength :	50 MPa
Maximum Elongation :	600%
Operating Temperature :	-40 °C to 90°C -40 °F to +194 °F
Max. Surge Temp :	+120 °C / +248 °F
Low Temperature Flexibility :	Good
Air Permeability :	0
Type of Material :	Sheet on roll, 1500x50000mm

Filcoflex B.V.
The Netherlands
Luxemburgstraat 3
5171 PK
Kaatsheuvel

Website : www.filcoflex.com
E-mail : info@filcoflex.com
Telephone : +31 (0) 416 764 764
Fax : +31 (0) 416 764 763

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Pressure Resistance for Flexible Connectors

0,34 Bar / 5.0 PSI For temperatures up to 90 °C / 195°F
Please see "Operating Pressure Guide" for further information.
we recommend using the shortest possible connector for applications where increased pressure and/or high temperature is expected. Please contact us for more information.

Weighing Applications

High volume weight and capacity weighing and dosing applications please see "weighing and dosing guide" for further information.

Chemical Resistance

- CIP resistant (see CIP chemicals guide)
- Cleaning Chemicals (see cleaning guide)
- For a detailed chemical resistance please see our chemical compatibility chart

ATEX & Explosion Safety

PU-UF1 has been tested for its electrostatic properties, and has been found ATEX compliant and safe to use in all dust explosion hazardous areas, such as ATEX zones 20, 21, 22.*

Surface Resistance:	5×10^{12} Ω	IEC 60093/EN1149 and TRGS 727
Volume Resistance:	3×10^{11} Ω	IEC 60093/EN1149-1 and TRGS 727

No propagating brush discharges could be determined.
Non Conductive but safe to use up to a length of 1000mm.*

PU-UF1 has also been explosion pressure tested and found safe to up to an explosion pressure of 1,5 Bar.

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Food Contact Compliancy

PU-UF1 complies with the following regulations for plastics in repetitive contact with foods:*

- **United States**
  - FDA 21 CFR 177.1680

- **European Community**
  - (EC) 1935/2004
  - (EC) 10/2011
  - (EC) 2023-2006
  - (EC) 1907/2006 (REACH)

- **China**
  - GB 4806.7 – 2016
  - GB 5009.156
  - GB 31604.1 – 2015
  - GB 4806.6 – 2016
  - GB 9685 – 2016

* Some restrictions may apply, a copy of all certifications can be downloaded, or will be sent to you upon request.
We will be happy to advise further if you have any questions.

Production Methods used

Joining / Bonding:

- Welding
  - HF high frequency welding
    Welding the material and cooling it down under compression with Radio Frequency to make the TPU material flow nearly seamless to form a uniform thickness with the original material wall thickness.
  - Heat contact – with silver alloy heating element
    Welds are welded surface to surface after which the weld are compressed while cooling.
  - Hot air – hot filtered and conditioned contaminent-, oil- and greas- free compressed air

Cutting :

- Stainless Steel knives
- Water Jet cutting

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