

PU-UF07

A Clear high gloss finish on both sides Poly Ether Urethane Thermo plastic film.
Having no memory **PU-UF07** 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
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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-UF07
Description :	Poly Ether Urethane
Color :	Clear Transparent
Surface :	Gloss / Gloss (both sides)
Surface Roughness :	Ra < 0,1 µm
Wall Thickness :	0,70mm / 0.0275 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 :	+110 °C / +230 °F
Low Temperature Flexibility :	Good
Air Permeability :	0
Type of Material :	Sheet on roll, 1500x50000mm

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Pressure Resistance for Flexible Connectors

Flexible Length up to 300mm

0,2 Bar / 2.9 PSI For temperatures up to 60 °C / 140°F

These pressures may cause expanded or contracted shapes.

Filcoflex can additionally add reinforcement rings to reduce contraction or expansion of the cylindrical shape.

Please contact us for more information for higher pressures, higher vacuum, or longer lengths.

Weighing Applications

Very suitable for high volume weight and capacity weighing and dosing applications where the required accuracy is <1kg. If the required accuracy is <0,5KG, please contact Filcoflex and explore Weighing Flexible Connections like silicone bellows, poly urethane bellows, PU-UF03 sleeves or PTFE 310 fabric.

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-UF07 has not yet been tested for its electrostatic properties, based on the testing of PU-UF1 and PU-UF03 it is safe to say PU-UF07 can be found ATEX compliant and safe to use in all dust explosion hazardous areas, such as ATEX zones 20, 21, 22, up to a maximum length of 100mm.*



Food Contact Compliancy

PU-UF07 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
 - (EU)2023/1627
 - (EU)2020/1245
 - (EC) 2019/1338
 - (EC) 2023-2006
 - (EC) 1907/2006 (REACH)
- **China**
 - GB 4806.7 – 2016 *
 - GB 9685-2016 *
 - GB 5009.156 *
 - GB 31604.1 – 2015 *



* Restrictions 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 contaminant-, oil- and greas- free compressed air

Cutting :

- Stainless Steel knives
- Water Jet cutting