

### PU W1

A white Poly Ether Urethane Thermoplastic film. PUW1 is not transparent nor translucent can therefore be used where light may not enter the process, or where sight is less wanted. Having no memory PU W1 will not fracture as a result of constant flexing.

#### Advantages

- Not transparent
- Not translucent
- Superior flexibility
- Excellent abrasion resistance
- White
- 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, Gyrotory, 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

<b>Name :</b>	PU W1
<b>Description :</b>	Poly Ether Urethane
<b>Color :</b>	White
<b>Surface :</b>	matt smooth (both sides)
<b>Surface Roughness :</b>	-
<b>Wall Thickness :</b>	1,05mm / 0.0413 Inch          (+/-10%)
<b>Hardness :</b>	85° Shore A
<b>Tensile Strength :</b>	42 MPa
<b>Maximum Elongation :</b>	665%
<b>Operating Temperature :</b>	-65 °C to 70°C -85 °F to +158 °F
<b>Max. Surge Temp :</b>	+100 °C / +121 °F
<b>Low Temperature Flexibility :</b>	Good
<b>Air Permeability :</b>	0
<b>Type of Material :</b>	Sheet on roll, 2000x50000mm

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### Pressure Resistance for Flexible Connectors

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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

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

### Chemical Resistance

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- 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

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**PU W1** has not been tested for its electrostatic properties, n risk assessment has been made yet.

### Food Contact Compliancy

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PU W1 complies with the following regulations for plastics in repetitive contact with foods:\*

- **United States**
  - FDA 21 CFR 175.105
  - FDA 21 CFR 177.1680
  - FDA 21 CFR 177.2600
  
- **European Community**
  - (EC) 1935/2004
  - (EC) 10/2011
    - No migration testing report available yet.



\* 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

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#### 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 grease- free compressed air

#### Cutting :

- Stainless Steel knives
- Water Jet cutting

