

## Technical Data Sheet

### Polyurethane Connectors, Sleeves & Bellows (WCMPUCSB)

POLYURETHANE

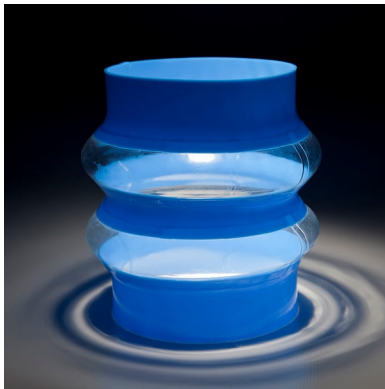
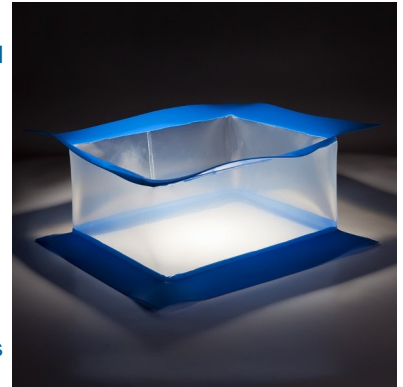
To compliment our range of hand fabricated FDA rubber connectors, we also offer fully welded FDA polyurethane sleeves and clear PVC sleeves, FDA polyurethane bellows and PVC bellows and FDA polyurethane flanged connectors. Most customer specific designs can be catered for. We also now have a clear FDA and ATEX approved polyurethane material and 1mm Blue FDA Metal Detectable Pu.

High frequency welding give the flexible connectors a strong base material with the advantage of non-standard shapes and sizes available without expensive tooling charges, along with suitability in food and pharmaceutical applications.

High frequency welded flexible polyurethane connectors can be manufactured in either crystal clear FDA polyurethane, FDA translucent polyurethane, FDA blue polyurethane, FDA black and white polyurethane materials to suit each individual application and are produced from thin walled polyurethane with a wall thickness from 0.1mm up to 1.5mm. We also stock 0.25mm crystal clear anti-static polyurethane. Clear polyurethane sleeves can be used in conjunction with our rubber sleeves to provide an outer bund.

The FDA polyurethane also gives a seal that is as strong as the material itself and can therefore be used for low pressure applications. Any combination of shape and size can be achieved in rectangular or circular form, with or without flanges.

We also manufacture FDA polyurethane convoluted bellows for use on vibratory sieves or where load cells require minimum resistance for weighing applications. We can produce the bellows with a standard single convolution, or for larger movement capabilities, more convolutions can be added to suit.



#### **Polyester Polyurethane.**

This material comes with an FDA approval and is crystal clear, making it ideal for food and pharmaceutical applications where blockages etc can be viewed without line disruption. An excellent abrasion resistance makes this ideal for the transportation of powders and fine granules. Available in 0.35mm, 1mm and 1.5mm wall thickness.

#### **Polyether Polyurethane.**

Our polyether polyurethane is a softer transparent polyurethane and has proved an excellent material within load-cell applications due to this increased flexibility. This material can be produced to any specifications giving a water-tight seal. Available in 0.35mm, 0.6mm and 1.5mm wall thickness.

#### **Nylon reinforced polyurethane.**

Available in white, our nylon reinforced polyurethane gives the advantage of extra strength under pressure applications. It can also be used to give a small pressure rating to un-reinforced rubber and fabric connectors. Widely used in the production of air balloon advertisements. Available in 0.3mm wall thickness.

Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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