

MODULAR TPE BELLOWS



PRODUCT DESCRIPTION

Modular TPE bellows constitute one part of the FST catalog portfolio. These are multi-convolution bellows made of thermoplastic elastomer, which are constructed according to the toolbox principle. The bellows can be varied in the manufacturing length (85 to 200 mm), the outside diameters (in gradations of Ø50, Ø63, Ø80, Ø100 and Ø125) and the connection areas by using different mold inserts and can thus be adapted precisely to the customer's application. Deviating manufacturing lengths and finer gradations of the outside diameters are possible on request.



Example illustration of a modular TPE bellows

PRODUCT ADVANTAGES

The customer is given the opportunity to create the desired bellows that fit precisely by choosing the right dimensions with our modular tool concept. Connections, convolution area and length are individually selectable, enabling a wide range of applications.

The depth and width of the convolutions and the connection areas are designed by Freudenberg depending on the customer's specifications for the application.

Due to the modular tool concept, different solutions can be realized and allow cost savings for follow-up projects of the customer.

The technical advantages of TPE compared to elastomer bellows lie primarily in its increased service life and ozone resistance.

APPLICATION

- cardan joints
- piston rods
- joy sticks
- connection of pipe ends to compensate for backlash
- overrun brakes of trailers

MATERIAL

Material	Temperature	Ozone resistance	Chemical resistance
Thermoplastic elastomer (TPE)	-40 ... +120 °C	high	as usual for polyolefins/thermo-plastics

The values listed in the table are approximate values. For more information please refer to the FST technical manual.