



WELDED TPU-SEALS

Thanks to the use of the most advanced technologies and automated production processes, Freudenberg Xpress® has the possibility to manufacture welded TPU (thermoplastic polyurethane) seals in the shortest possible time.

The welded seal profiles are available in nearly all dimensions. Even profiles with a diameter of 20 meters or more can be produced. This makes the Freudenberg Xpress® welding technology the optimal complement to turned seals, which can be produced up to a diameter of 1.8 meters depending on the material. Turned or extruded seal profiles are the basis for welded seals. Besides standard profiles, customer-specific profiles can be manufactured.

TECHNICAL CHARACTERISTICS

Quality

Welded seals from Freudenberg Xpress® represent a clear advantage over comparable solutions from other manufacturers. In those cases, industrial adhesives and less precise, outdated welding technologies are often used. This in fact reduces costs but decreases quality. On the contrary, welded sealing solutions from Freudenberg Xpress® stand out for their high-quality welded seams. Even in the area of the weld, this guarantees the seal's excellent technical qualities, high media resistance and thus high durability.

Material Characteristics

All the relevant, original TPU materials from Freudenberg can be used to manufacture Freudenberg Xpress® welded seals. TPU materials are impressive for their use across a broad range of temperatures, outstanding mechanical qualities and durability, among other features.

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.

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TPU-MATERIAL	COLOR	TEMPERATURE AREA °C	NOTE
94 AU 925	●	-30 to +110	
94 AU 30000	●	-35 to +120	
95 AU V142	●	-30 to +110	
92 AU 21100	●	-50 to +110	Low temperature material
94 AU 21730	●	-25 to +110	FDA-compliant and hydrolysis-resistant
93 AU V167	●	-20 to +110	FDA-compliant

APPLICATIONS

Due to its tremendous flexibility and unique Freudenberg quality, this welding technology is an outstanding solution especially for industries that require very large sealing profiles.

VALUE FOR THE CUSTOMER

- Nearly any large dimension achievable
- Custom profiles can be produced
- Processability of the original Freudenberg TPU materials
- Despite the weld seam, outstanding technical features