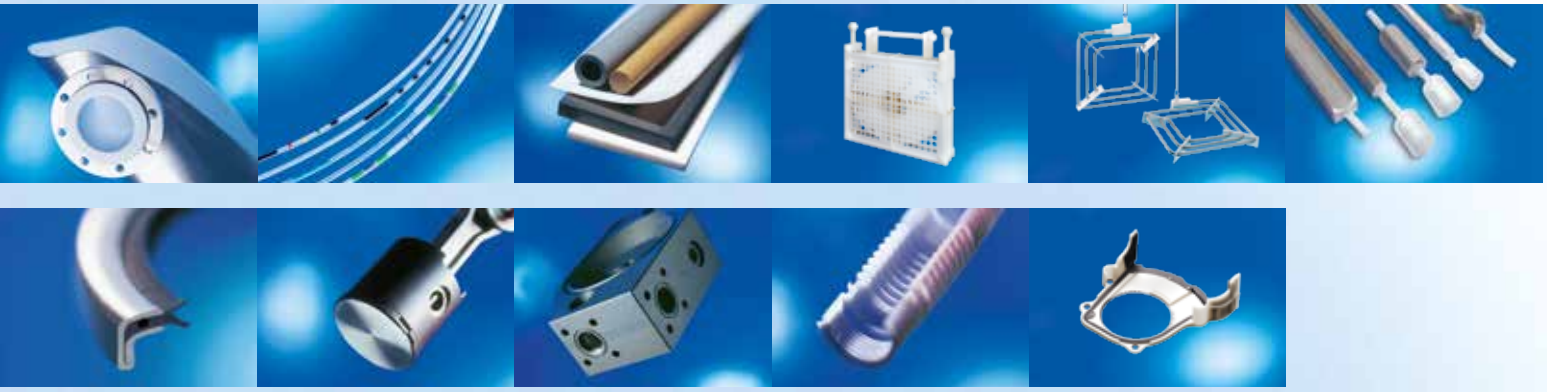
Technology Leadership in Innovative Products

The Leading Comprehensive Range in High-Performance Plastics



elringklinger
Engineered Plastics

Pioneering: our engineering solutions made from high-performance plastics. Comprehensive: our broad product range.

Innovations in high-performance plastics – for over 50 years, ElringKlinger Kunststofftechnik has been one of the technology leaders for seals, engineering design elements and assemblies. For our customers around the world, we develop and produce at 5 plants on 3 continents individual, market-driven solutions from **high-performance plastics such as Polytetraflon™ PTFE, the thermoplastic processing material Moldflon™ PTFE, PFA, FEP, ETFE, PVDF, PEEK, PPS, PEI and composites.** Our solutions meet the toughest demands to be found in the field – with economy and reliability guaranteed.

Many years of application and processing know-how in virtually all sectors of industry combined with a focus on technological development has produced a unique ability to manufacturing miniature components from 0.6 mm outer diameter, as well as items with diameters up to 3000 mm. With an extensive pool of modern machine tools including cleanroom facilities, small batch or high volume production requirements can be accommodated and certified according to ISO/TS 16949, EN ISO 14001, GMP and EN ISO 13485.

Materials and Process Expertise

Innovation starts with the material. Due to in-house materials development and compounding, Polytetraflon™ PTFE materials and Moldflon™ thermoplastic material can be customized. Optimal performance for our customers is achieved not only by means of component optimizations using the Finite Elements Method (FEA) but also by selecting suitable materials.

The combination of PTFE's unique material properties and degrees of freedom with the economy resulting from melt-based manufacturing processes such as injection-molding or extrusion, gives ElringKlinger Kunststofftechnik a leading edge in its field yet again. Moldflon™ thermoplastic material clearly expands the application options while using different high-performance plastics. This significantly broadens the processing spectrum and product range for the benefit of our customers.

Hybrid Injection Molding
Efficient and economic thermoplastic production of high-performance plastic products in high-volume.

Shaft seals with PTFE sealing lip
Preferably used for sealing rotary shafts. Also suitable for use in dry operating conditions and with extremely high temperatures.

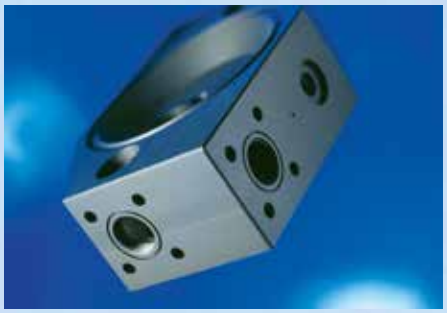
Piston rings and guiding elements
For dry-running compressors. Exceptionally low coefficient of friction when combined with metals – even without lubrication.

Spring-energized seals
For sealing reciprocating pistons and rods as well as for rotary and swiveling applications. Outstanding chemical resistance to aggressive media.

Memory packings
For sealing reciprocating pistons and rods. For applications involving high temperatures. No stick-slip effect.

Bellows
Chemically resistant. Wide temperature range from –60°C to +200°C. Also suitable for use in medical and food industry applications.

Diaphragms
From pure PTFE or as PTFE composite diaphragm versions. Chemically and thermally resistant, optimized for high alternating bending properties even under pressure.

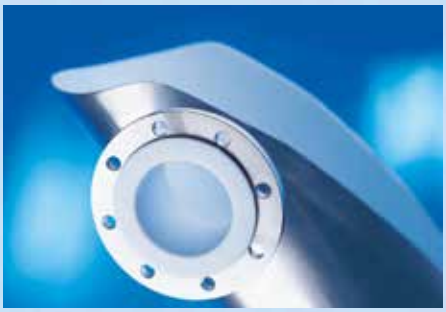


Design elements
Application-specific solutions available also in large dimensions of up to 3,000 mm diameter and length. Manufacturing technology: hydraulic and isostatic compression-molding, milling, welding, cutting.

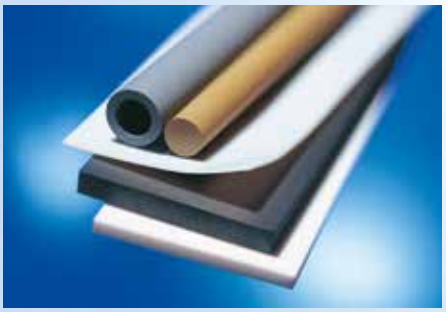
Tubings
Used in medical technology and general industrial applications. Chemically resistant to hot vapors. Service temperature range from –200°C to +260°C. Unfilled PTFE – physiologically neutral (FDA approved).

Porous PTFE
Used for separating gases, vapors and fluids, as films/sheets, filter elements and diaphragms.

Porous PTFE
For optical applications such as Ulbricht integrating spheres, Lambert reflectors, projection screens and fluorescence standards.

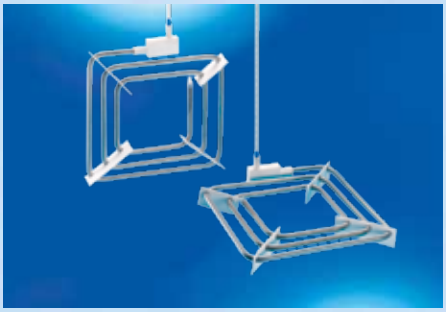


Laminate PTFE composites
Reinforced PTFE achieved through composites with fabrics, fibers and films. Typical materials of this type include ceramics, metal, glass, elastomer and other high-performance plastics.



Semi-finished products
Semi-finished products from Polytetraflon™ PTFE or Moldflon™ PTFE, PFA, FEP, PVDF, PCTFE available as rods, plates, disks/rondes and films/sheets.

Heat Exchangers
Plastic Heat Exchangers, chemical and corrosion resistant made from Moldflon™ PFA, ECTFE, PVDF, PP or PE in various designs. For applications in Electroplating-, Photovoltaic-, Semiconductor- and Chemical Industry.



Immersion Heaters
Immersion Heaters for controlled heating of aggressive fluids. For applications in Electroplating-, Photovoltaic-, Semiconductor-, Chemical- and Food Industry.

Heat Shrink Tubing
Heat Shrink Tubing made from Polytetraflon™ PTFE or Moldflon™ PTFE, FEP or PFA. For applications in Measurement-, Medical-Chemical-, Automotive- and Food Industry as well as in Aerospace.

Headquarters and further plants

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