Technology Leadership in Innovative Products

The Leading Comprehensive Range in High-Performance Plastics





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

nnovations 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 PolytetraflonTM PTFE, the thermoplastic processing material MoldflonTM PTFE, PFA, FEP, ETFE, PVDF, PEEK, PPS, PEI and composites. In the area of PFAS-free materials, we work with PE-UHMW and PE-HD. 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 IATF 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,
PolytetraflonTM PTFE materials and MoldflonTM 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. MoldflonTM 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.



ElroSealTM Rotary 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. New designs for highspeed applications in the e-mobility sector, among others.



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.



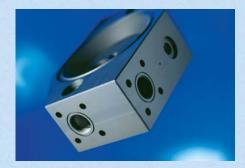
Memory packings For sealing reciprocating pistons and rods. For applications involving high temperatures. No stick-slip effect.



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 and Heat Shrink Tubings
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.



Precision Parts

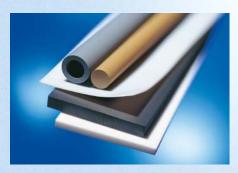
Machined or injection molded micro components with diameters less than 0.5 mm and wall thicknesses of a few hundredths of a millimetre for electro-medical devices, short-term implants and other applications.



Porous PTFE
For optical applications such as Ulbricht integrating spheres and Lambert reflectors or used as filter elements for separating gases, vapors and fluids.



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.



Thermo-XTM Heat Exchangers
Plastic heat exchangers, chemical and
corrosion resistant made from MoldflonTM
PFA, PVDF, PP or PE in various designs. For
applications in Electroplating-, Photovoltaic-,
Semiconductor- and Chemical Industry.



ThermoGenius™ Water Water heat exchanger for the extraction of geothermal energy from surface waters.



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

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IATF 16949:2016 | DIN EN ISO 14001 | ISO 50001





EN ISO 13485

