Poly Fluoro Ltd is a globally recognised leader in the field of engineering plastics. Over the last thirty years, we have built our brand on quality, innovation, and outstanding customer service. Integrating in-house processing techniques with innovative machining and fabrication capabilities, we have developed a unique range of products tailored to suit numerous applications.

Our facility is equipped with the capacity to mould, extrude, expand, and machine polymers in sizes ranging from 10mm to 500mm in diameter. Specialising in both virgin and formulated grades, we offer end-products ideally suited for use in original equipment and industrial maintenance.

**OUR PRODUCTS**

**Expanded PTFE (ePTFE)**
- Membranes
  - Quality membranes for venting in high-corrosion environments
  - Allows the passage of gas, but restricts the flow of liquids
  - Available in hydrophobic and oleophobic variants with customisable porosity

**Expanded PTFE (ePTFE) Gasket Tapes**
- ePTFE joint sealant, gasket tapes offer from-in-place sealing
- Can withstand temperatures of up to 250°C and high-corrosion environments
- Stocked in standard sizes. Customized profiles can be made to client specifications

**PTFE Sliding Bearings**
- Structural load bearings with vertical load capacities of up to 300 Tonnes
- Sliding properties offering coefficients of friction as low as 0.003
- Fully integrated design department to customise bearings as per project requirements
- Conforming to global standards including BS 5400 and IRC:83 Part III
- Used in coal-handling-plants (CHP), boiler plants, bridges and as pipe supports

**PTFE (Teflon®) Skived Films**
- Insulation films having dielectric breakdown strengths of up to 150kV/mm
- Thicknesses as low as 40 microns
- Available in continuous rolls with full customizable widths as per client requirements
- Can be chemically treated (etched) for bonding

**PTFE (Teflon®) Tubes**
- High precision tubes with tolerances as low as 30 microns and concentricity of ±0.05
- Can withstand temperatures of up to 250°C and high-corrosion environments
- Available in continuous length with diameters of 2mm going up to 30mm.
- Can be incorporated with pigments and fillers to suit client end-applications
- State-of-the-art inspection facility to test for tensile properties and burst pressures

**Precision Machined Polymer Components**
- Capability to compression mould, injection mould and machine polymers
- Extensive portfolio spanning PTFE, PEEK, Dyneon, Nylons, PPS and Polymide
- Best-in-class dimensional tolerances as low as 50 microns
- State-of-the-art CNC machining unit for turning, milling and turn-milling
- Inspection and full traceability to meet the most stringent quality requirements

**Lubring (Turcite®) Slideway Bearings**
- Linear slideway bearing material with superior wear properties
- Is self-lubricating, offering coefficients of friction as low as 0.05
- Is fully machinable, has very low moisture absorption and high chemical resistance
- Used as wear strips, piston bands and as replacement for standard phosphor-bronze bearings in machine tool applications

**Key properties of engineering polymers from Poly Fluoro**
- High-strength-to-weight ratio
- Thermal insulation
- Electrical insulation
- High compressive strength
- Low coefficient of friction
- Self-lubricating
- Chemically inert
- Superior sealing

**Our Industries we cater to:**
- Aerospace
- Medical
- Semi-conductors
- Chemical
- Infrastructure
- Machine tool
- Food processing
- Fluid transfer
- Oil & Gas
- Automotive
- Railway
- Cable and Insulation

For more information, visit us at [www.polyfluoroltd.com](http://www.polyfluoroltd.com) or e-mail us at [enquiries@polyfluoroltd.com](mailto:enquiries@polyfluoroltd.com)

(Teflon® is a trademark of Chemours; Turcite® is a trademark of Trelleborg Sealing Solutions)