

Mfg. Of PTFE, Filled Grade PTFE, Moulded & Machined Components



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✓ Mechanical Seal Teflon Below

✓ V-Packing

✓ Gasket, Tubes & Rods

✓ O-Ring

Industries We Serve

Valve Industries

Mechanical Seal Industries

Industrial Pumps | Chemical Plants

Company About Us

- **Mech Line Polymers is a trusted manufacturer of high-quality PTFE products serving critical industrial sealing applications.**

We specialize in PTFE and filled-grade PTFE solutions for mechanical seals, valves, and industrial pumps. Our in-house manufacturing covers a wide range of materials and custom specifications, produced in multiple forms to suit demanding process industries. With a strong focus on precision and consistency, we ensure reliable performance while maintaining competitive pricing without compromising quality.

Quality control is embedded at every stage of our production process, supported by disciplined systems and experienced management. We maintain ready stock of standard sizes and offer fully customized PTFE components as per client requirements. At Mech Line Polymers, customer satisfaction drives everything we do, and we aim to build long-term partnerships through dependable products and responsive service.

| What Is Teflon?

Understanding Teflon and Its Industrial Significance

- ☑ Teflon is a registered trademark owned by DuPont for fluoropolymer-based materials.
- ☑ The term is commonly associated with products manufactured using DuPont's proprietary fluoropolymer resins.
- ☑ It represents a benchmark for performance, durability, and reliability in industrial applications.

| What Is PTFE?

A High-Performance Fluoropolymer Explained

- ☑ PTFE stands for Polytetrafluoroethylene, a fluoropolymer known for exceptional chemical stability.
- ☑ It offers low friction, high heat resistance, electrical insulation, and excellent non-stick characteristics.
- ☑ PTFE resins are produced worldwide under different trademarks by leading global polymer manufacturers.



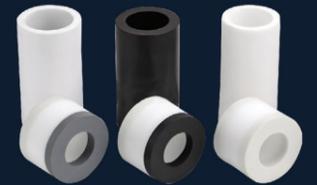
Product Index

This product index presents a structured overview of our PTFE solutions, arranged for quick reference and easy navigation.

Each section details specific PTFE materials and components, covering moulding, filled grades, machined parts, bellows, and related products.

PTFE Moulding

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The Best Quality Product



Real Values For Our Clients

PTFE MOULDING

At Mech Line Polymers, we manufacture PTFE and filled-grade PTFE components through in-house facilities, including GFT, CFT, MoS₂, graphite, bronze, and custom grades. Our moulded PTFE bushes and bellow bushes are produced using certified raw materials, ensuring consistent quality. Sizes range from 25–250 mm OD and 12–225 mm ID, with standard 100 mm lengths.

BUSH SIZES

| OD X ID X L | OD X ID X L | OD X ID X L | OD X ID X L | OD X ID X L |
|-----------------|---------------|----------------|-----------------|-----------------|
| 25 X 12 X 100 | 47 X 25 X 100 | 70 X 50 X 100 | 110 X 85 X 100 | 160 X 135 X 100 |
| 25 X 15 X 100 | 47 X 35 X 100 | 70 X 55 X 100 | 110 X 90 X 100 | 160 X 140 X 100 |
| 25 X 17.5 X 100 | 50 X 25 X 100 | 75 X 45 X 100 | 115 X 90 X 100 | 165 X 140 X 100 |
| 29 X 15 X 100 | 50 X 30 X 100 | 75 X 55 X 100 | 115 X 95 X 100 | 165 X 145 X 100 |
| 29 X 17.5 X 100 | 50 X 32 X 100 | 75 X 60 X 100 | 120 X 95 X 100 | 170 X 145 X 100 |
| 29 X 20 X 100 | 50 X 35 X 100 | 80 X 50 X 100 | 120 X 100 X 100 | 170 X 150 X 100 |
| 32 X 15 X 100 | 50 X 38 X 100 | 80 X 60 X 100 | 125 X 75 X 100 | 175 X 125 X 100 |
| 32 X 17.5 X 100 | 54 X 42 X 100 | 80 X 65 X 100 | 125 X 100 X 100 | 175 X 150 X 100 |
| 32 X 20 X 100 | 55 X 30 X 100 | 85 X 55 X 100 | 125 X 105 X 100 | 175 X 155 X 100 |
| 35 X 15 X 100 | 55 X 32 X 100 | 85 X 65 X 100 | 130 X 105 X 100 | 180 X 155 X 100 |
| 35 X 17.5 X 100 | 55 X 35 X 100 | 85 X 70 X 100 | 130 X 110 X 100 | 180 X 160 X 100 |
| 35 X 20 X 100 | 55 X 40 X 100 | 90 X 60 X 100 | 135 X 110 X 100 | 185 X 160 X 100 |
| 35 X 22.5 X 100 | 58 X 45 X 100 | 90 X 65 X 100 | 135 X 115 X 100 | 185 X 165 X 100 |
| 35 X 25 X 100 | 60 X 30 X 100 | 90 X 70 X 100 | 140 X 115 X 100 | 190 X 165 X 100 |
| 37 X 20 X 100 | 60 X 40 X 100 | 95 X 65 X 100 | 140 X 120 X 100 | 190 X 170 X 100 |
| 37 X 25 X 100 | 60 X 45 X 100 | 95 X 75 X 100 | 145 X 120 X 100 | 195 X 170 X 100 |
| 40 X 20 X 100 | 60 X 48 X 100 | 95 X 80 X 100 | 145 X 125 X 100 | 195 X 175 X 100 |
| 40 X 22.5 X 100 | 65 X 35 X 100 | 100 X 75 X 100 | 150 X 100 X 100 | 200 X 150 X 100 |
| 40 X 25 X 100 | 65 X 45 X 100 | 100 X 80 X 100 | 150 X 125 X 100 | 200 X 175 X 100 |
| 40 X 28 X 100 | 65 X 50 X 100 | 100 X 85 X 100 | 150 X 130 X 100 | 200 X 180 X 100 |
| 45 X 25 X 100 | 68 X 52 X 100 | 105 X 80 X 100 | 150 X 130 X 100 | 225 X 200 X 100 |
| 45 X 32 X 100 | 70 X 40 X 100 | 105 X 85 X 100 | 155 X 135 X 100 | 250 X 225 X 100 |

Note: Contact us for special size

PTFE FILLED GRADE & PTFE

PTFE and filled-grade PTFE are high-performance engineering polymers known for chemical stability, weather resistance, thermal endurance, electrical insulation, and extremely low friction. Their non-stick nature and reliability under harsh conditions make them ideal for demanding industrial environments where consistent performance and long service life are essential.

These properties enable widespread use across chemical, pharmaceutical, power, railway, and precision engineering industries.

15% Glass Filled & 5% MoS₂ Filled PTFE

MoS₂ acts as an effective dry lubricant, reducing friction and wear, while glass fibers enhance strength without compromising chemical or electrical stability.

This PTFE grade is widely used in hydraulic and pneumatic reciprocating seals, manufactured with 15% glass and 5% MoS₂.



60% Bronze Filled PTFE

We manufacture and supply 60% bronze-filled PTFE, offering enhanced wear resistance, thermal conductivity, and creep strength while retaining low friction.

This material performs well under high loads and speeds but is unsuitable for chemical or electrical applications.



25% Glass Filled PTFE

Glass-filled PTFE, typically reinforced with 15% or 25% short fibers, improves creep resistance, compressive strength, and insulation without significantly affecting chemical stability.

While resistant to acids and oxidation, it may react with alkalis and can be abrasive to softer mating surfaces.



Modified PTFE

Mech Line Polymers manufactures and supplies modified PTFE products from Mumbai, India, serving precision-driven industrial sealing applications.

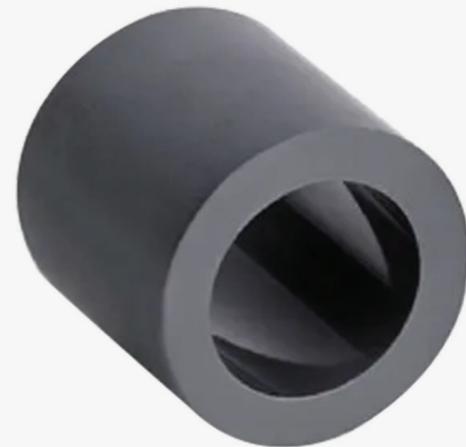
This material offers low deformation, minimal permeation, high purity, and excellent resistance to chemicals and temperature extremes.



15% Graphite Filled PTFE

Graphite-filled PTFE reduces friction and protects softer mating metals, performing reliably in corrosive environments while enhancing load-bearing stability.

It is well-suited for seals, gaskets, and bearing applications, offering improved strength and controlled wear characteristics.



55% Bronze filled & 5% MoS2 filled PTFE

Mech Line Polymers manufactures and supplies 55% bronze-filled and 5% MoS₂-filled PTFE, offering complete PTFE moulded, filled, machined, and sealing solutions.

Our range includes specialized O-rings, gaskets, seal rings, V-packings, wedges, and precision-engineered PTFE components.



25% Carbon Filled PTFE

Mech Line Polymers manufactures and supplies 25% carbon-filled PTFE components in various sizes for demanding industrial applications.

This grade delivers excellent wear resistance, chemical stability, load-bearing capability, and adjustable electrical conductivity through controlled carbon content.



PEEK Filled PTFE

Mech Line Polymers manufactures and supplies PEEK-filled PTFE from Mumbai, India, designed for high-strength and high-temperature industrial applications.

This high-modulus material is primarily recommended for back-up ring applications requiring thermal stability.



Aluminum Oxide filled PTFE

Aluminum oxide-filled PTFE provides excellent electrical insulation and enhanced mechanical strength, making it suitable for demanding high-voltage applications.

Mech Line Polymers manufactures and supplies this hard material, where post-sintering machining is generally not recommended.



PTFE PIGMENTED

Pigmented PTFE combines functional fillers with color pigments to enhance wear resistance, compressive strength, and enable easy component identification.

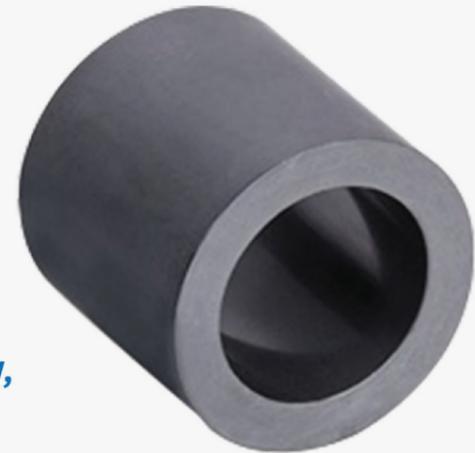
Mech Line Polymers manufactures and supplies pigmented PTFE in multiple colors for seals, piston rings, and cup applications.



Stainless Steel Filled PTFE

Mech Line Polymers is a leading manufacturer and supplier of stainless steel-filled PTFE for heavy-duty industrial applications.

This grade offers high wear resistance, strong load-bearing capacity, improved chemical stability, and excellent performance in steam service.



PTFE

PTFE is a high-performance engineering polymer offering chemical inertness, weather stability, thermal resistance, electrical insulation, non-stick behaviour, and extremely low friction.

These properties drive widespread use across chemical, pharmaceutical, power, railways, and precision manufacturing industries.



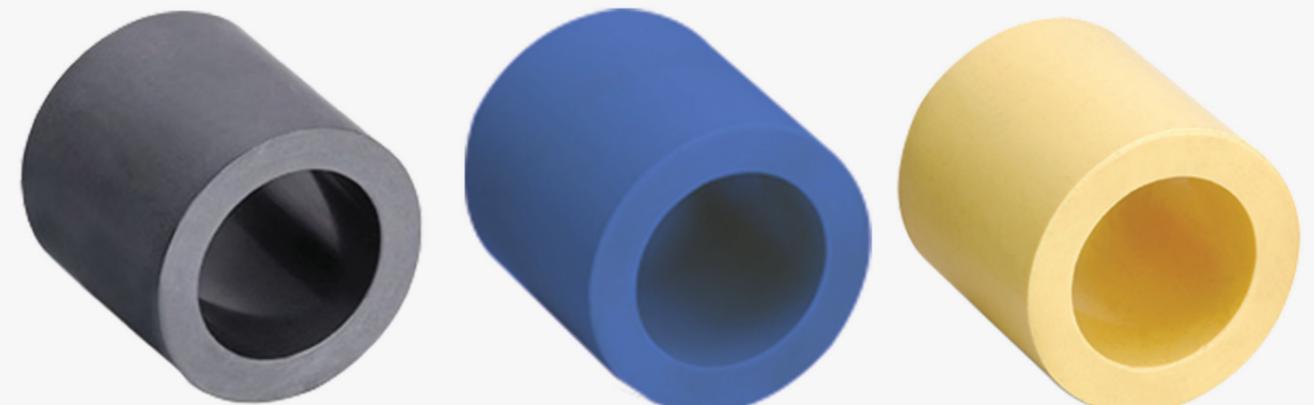
Rulon

Mech Line Polymers manufactures and supplies Rulon, a proven reinforced PTFE known for flexibility, load-bearing strength, low friction, and excellent wear resistance.

Ideal for seals, piston cups, and bearings, it requires mating surfaces of RC35 hardness or higher.



Different Colours of PTFE Pigmented



Nickel Filled PTFE

Mech Line Polymers manufactures and supplies nickel-filled PTFE, offering improved creep resistance while maintaining the core physical and chemical properties of virgin PTFE.

It is suitable for anti-extrusion, back-up, guide rings, and chevron packing, with limited chemical compatibility considerations.



Ekonol® Filled PTFE

Ekonol®-filled PTFE combines thermal stability with excellent wear and high-temperature resistance, making it suitable for demanding rotary and continuous-motion applications.

Mech Line Polymers manufactures and supplies this grade, which is metal-friendly and suitable for food-service environments.



The Best Quality Products

PTFE MACHINED PARTS

Mech Line Polymers manufactures and supplies a comprehensive range of precision PTFE machined parts. Each component is produced under strict quality supervision to ensure reliability and consistency. Our parts are available in various sizes and designs, with full customization offered to meet specific client requirements and application needs.

Encapsulated O-Ring

Mech Line Polymers manufactures and supplies high-quality encapsulated O-rings designed for reliable sealing across a wide range of industrial applications.

These O-rings are widely used in chemical, pharmaceutical, food, petrochemical, refrigeration, and cosmetics processing equipment.

Used in: Mechanical Seal Size: Up to 2"



PTFE O-Ring

Mech Line Polymers manufactures and supplies high-quality PTFE O-rings engineered for resistance to aggressive chemicals, acids, and gases.

They are ideal for sealing applications involving high temperatures and corrosive liquids or gaseous media.

Used in: Mechanical Seal Size: Up to 2"



V-PACKING

Mech Line Polymers manufactures and supplies high-quality V-packings designed for effective sealing of rods and pistons.

They are suitable for low and high-pressure applications in both single and double-acting cylinders.

Used in: Mechanical Seal Size: Up to 2"



CFT Seal Face

Mech Line Polymers manufactures and supplies CFT seal faces engineered for reliable sealing performance in corrosive operating environments.

Our portfolio also includes O-rings, wedges, V-packings, seal rings, clamp rings, and other precision PTFE sealing components.

Used in: Mechanical Seal Size: Up to 2"



PTFE WEDGE

Mech Line Polymers manufactures and supplies precision PTFE wedges for reliable sealing and industrial applications.

Our product range includes O-rings, V-packings, seal rings, envelope gaskets, seal faces, and other engineered PTFE components.

Used in: Mechanical Seal Size: Up to 2"



Envelope Gasket PTFE

Mech Line Polymers manufactures and supplies PTFE envelope gaskets designed for dependable sealing in highly corrosive service conditions.

Our range also includes O-rings, wedges, V-packings, seal faces, seal rings, clamp rings, and related PTFE components.

Used in: Mechanical Seal Size: Standard & Custom



PACKING

Mech Line Polymers manufactures and supplies high-quality industrial packings designed for effective sealing of rods and pistons.

They perform reliably in low and high-pressure conditions, suitable for single and double-acting cylinders.

Used in: Mechanical Seal Size: Up to 2"



GFT Seal Ring

Mech Line Polymers manufactures and supplies high-quality GFT seal rings known for reliable performance and consistent sealing efficiency.

These seal rings are available in multiple specifications to meet diverse client requirements across industrial applications.

Used in: Mechanical Seal Size: Standard & Custom



Lip Seal

Mech Line Polymers manufactures and supplies PTFE lip seals engineered for reliable dynamic shaft sealing.

They seal statically within the bore using an elastomeric O-ring integrated on the inner diameter.

Used in: Mechanical Seal Size: Standard & Custom



TBR Bellow & Cover

PTFE bellows are engineered for applications involving continuous exposure to aggressive chemicals and corrosive fumes.

They are widely used in chemical processing plants, laboratory equipment, and precision instrumentation systems.

Used in: Mechanical Seal Size: Standard & Custom



TB Bellow & Cover

PTFE bellows are designed for applications involving continuous exposure to aggressive chemicals and corrosive fumes.

They are commonly used in chemical processing, laboratory equipment, and instrumentation engineering systems.

Used in: Mechanical Seal Size: Available in various size



Throttle Bush

Mech Line Polymers manufactures and supplies a complete range of throttle bushes suitable for diverse industrial service conditions.

Our product portfolio also includes PTFE O-rings, wedges, V-packings, seal rings, envelope gaskets, seal faces, and clamp rings.

Used in: Mechanical Seal Size: Available in various size



Valve Packing

Mech Line Polymers offers a complete range of pump and valve packings designed to perform reliably across diverse industrial service conditions.

Our portfolio includes PTFE O-rings, wedges, V-packings, seal rings, envelope gaskets, seal faces, and clamp rings.

Used in: Mechanical Seal Size: Standard & Custom



CER. Sleeve Packing

Mech Line Polymers manufactures and supplies a comprehensive range of sleeve packings designed for reliable performance across varied service conditions.

We specialize in PTFE filled grades, machined components, and moulded PTFE parts manufactured in Mumbai, India.

Used in: Mechanical Seal Size: Available in various size





The Best Quality Products

T-Type Ceramic



T-type ceramic offers low thermal expansion and reliable performance in various acidic applications.

Item Code: T-Type Ceramic
Material: Ceramic
Size: 3/4" to 2.500"

Ceramic Sleeve



Ceramic sleeves replace exotic alloys like Hastelloy C and Alloy 20, reducing overall cost.

Item Code: Ceramic Sleeve
Material: Ceramic
Size: Ceramic

TEFLON BELLOW & FACES

Mech Line Polymers manufactures and supplies a premium range of PTFE bellows and faces using carefully selected, high-quality raw materials. These components are valued for precision, reliability, and consistent performance. Designed to support smooth and controlled pipeline flow, they are widely used in primary glass equipment and other critical industrial applications.

ML-TB



ML-TB is a non-replaceable PTFE seal face designed for reliable and consistent performance.

Item Code: MT-TB
Material: PTFE
Size: 12mm to 2.500"

ML-TBR



ML-TBR is a replaceable seal face engineered for high-performance sealing applications.

Item Code: MT-TBR
Material: PTFE
Size: 12mm to 2.500"

ML-TBS



ML-TBS features isolated springs, preventing media contact and extending overall seal life.

Item Code: ML-TBS
Size: 12mm to 2.500"

Seal Flange



Seal flanges in Hylam or bakelite are designed for reliable performance in highly acidic applications.

Item Code: Seal Flange
Size: 12mm to 2.500"

Xylan 1070 Coating



Xylan 1070 is a PTFE-based fluoropolymer coating offering excellent corrosion protection.

Temp : Up to 260°C

Halar Coating



Seal flanges in Hylam or bakelite ensure reliable performance in highly acidic applications.

Temp : Up to 150°C

ML-SF TB / TBR



ML-SF features a comparatively harder seal face for enhanced durability.

Item Code: ML-SF
Size: Standard

ML-FC TB / TBR



ML-FC offers custom colour coding for seal bellows to maintain standardized identification.

Item Code: ML-FC
Size: Standard

ML-MS



ML-MS features self-lubricating properties, enabling reliable operation in dry applications.

Item Code: ML-MS
Size: Standard

ML-CF TB/TBR



ML-CF delivers excellent wear resistance, chemical stability, and high load capacity under rubbing conditions.

Item Code: ML-CF
Size: Standard

ML-MC TB/TBR



ML-MC Xylan coating enhances hardware durability and extends overall service life.

Item Code: ML-MC
Size: Standard

ML-SS WC/CC



ML-SS uses a Halar-coated single coil spring for extended service life.

Item Code: ML-SS
Size: Standard

ML-BC TB/TBR



ML-BC offers custom color coding for seal faces to maintain standardization.

Item Code: ML-BC
Size: Standard

ML-FC TB/TBR



ML-SG provides excellent flexibility with strong wear resistance.

Item Code: ML-FC
Size: Standard

Machines Other Parts

