Lubrizol Engineered Polymers’ innovative solutions are selected for the outstanding physical and aesthetic properties they provide in many industrial, sports, recreational and consumer goods applications. Our polymers bridge the gap between flexible rubber and rigid plastics, with a wide variety of physical and functional property combinations.

As the inventor of thermoplastic polyurethane (TPU), our Estane® polymers set the mark for performance and quality. Through decades of innovation and strong dedication to the markets we serve, we have developed one of the deepest, most specialized portfolios available.

We help customers solve some of the industry’s toughest challenges, making products safer and stronger for better end-use performance, often while simultaneously improving aesthetics and sustainability outcomes.

Inventor and Innovator serving a broad array of performance applications

PRODUCT BENEFITS
- Abrasion Resistance
- Impact Resistance
- Puncture Resistance
- UV Resistance and/or Filtering
- Chemical Resistance
- Hydrolysis Resistance
- Hardness (52A to 85D)
- Thermal Extremes
- Barrier Properties
- Fungal Resistance
- Optical Clarity
- Polymer Compatibility
- Static Dissipation
- Antimicrobial
- Flame Resistance
- Friction
- Bio-based*
- Recyclable**

At Lubrizol, as material science experts, we work collaboratively with customers to build market insights and redefine problems and how they are solved – from the molecular level right through formulation, applications development and performance testing.

Our chemistry is simple, yet versatile, giving us powerful capacity for innovation. Through formulation and processing, we can precisely engineer the technology to the needs of the application and end-use.

Advancing materials, elevating performance – it’s both our mission and our passion.

To learn more, visit www.lubrizol.com/engineered-polymers.

*Bio-based content as certified in accordance with ASTM D-6866.
**Recyclability is based on access to a readily available standard recycling program that supports such materials. This product may not be recyclable in all areas.
A POWERFUL LEGACY
INSPIRED BY BETTER

From the invention of Estane® TPU through our most recent expansions and innovations, we remain focused on improving lives and delivering customer success. Inspired by better, we constantly strive to help customers solve problems they once thought impossible, and to bring together the people, ideas and technologies that can enable new designs, better performing materials and more sustainable outcomes.

We’re proud to be part of The Lubrizol Corporation, a Berkshire Hathaway company. Lubrizol is a market-driven global company that combines complex, specialty chemicals to optimize the quality, performance and value of customers’ products while reducing their environmental impact. Headquartered in Wickliffe, Ohio, Lubrizol serves global transportation, industrial and consumer markets, with revenue of $6.3 billion in 2017.

FULL RESPECT FOR PRODUCT SAFETY AND COMPLIANCE

Depending on the grade, Lubrizol Polymers are able to meet or exceed the most stringent requirements of a wide variety of regulatory codes and various industry-regulated environmental standards. These include, but are not limited to:

- EU Food Approval
- FDA (U.S. Food and Drug Administration) Food Approval
- British Standards
- KTW (Kunststoffe und Trinkwasser) potable water
- NSF (National Science Foundation)
- Military Specifications
- Flame-Retardant Specifications: UL (Underwriters Laboratory)
- Automotive OEM (original equipment manufacturers) specifications
- DIN (Deutsches Institut für Normung e. V.), ISO (International Standards Organization), ASTM (American Society for Testing and Materials), JIS (Japanese Industrial Standards) test methods
- Oeko-Tex certification for breathable TPUs

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PRODUCT PLATFORMS

ESTANE® TPU
A extensive range of high performance solutions and chemistries precisely engineered to the applications they serve, from consumer to industrial specialties.

ESTALOC™ RETPU
Reinforced high flex modulus materials engineered for extra strength and stiffness and dimensional stability.

ISOPLAST® ETP
Rigid materials engineered for high tensile strength and impact resistance.

PEARLSTICK™ TPU
High-performing polymer solutions with a wide crystallization range for solvent-based adhesive formulations.

PEARLCOAT™ TPU
Specialty elastomers engineered for use in melt coating processes.

PEARLTANE™ TPU
Engineered to meet the needs of high-demanding technical and industrial applications.

PEARLBOND™ TPU
Solvent-free engineered polymers for high performance hot melt and reactive PUR hot melt adhesive applications.

BIO-TPU™ BY LUBRIZOL
Specialties from our Pearlbond and Pearlthane ECO ranges, engineered for performance with renewable, bio-based content and sustainability benefits.

CARBO-RITE™
Conductive compounds engineered to provide consistent, permanent electrostatic dissipative (ESD) effects.

STAT-RITE™
Ultra-clean, proprietary polymer alloys with inherently static dissipative properties.

FOCUS MARKETS
• Surface Protection
• Transportation
• Industrial Specialties
• Consumer Specialties
• Consumer Electronics
• Performance Footwear
• Performance Apparel

*Bio-based content as certified in accordance with ASTM D-6866.

To learn more, visit www.lubrizol.com/engineered-polymers.
LOCALLY PRESENT
GLOBALLY NETWORKED

With local sales and technical support, R&D and manufacturing centers of excellence in each region, and a well-networked global supply chain, we offer a convenient, single source of reliable solutions for customers across the world.

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