



## Estane® Engineered Polymers

Estane® TPUs offer exceptional benefits by bridging the gap between flexible rubber and rigid plastics. Unlike other thermoplastic elastomers, Estane TPU provides numerous physical property combinations, making it an extremely flexible material adaptable to numerous uses.

Lubrizon also manufactures medical grade TPUs under the name of Thermedics™ Polymer Products, which are used in custom medical tubing.

### Products and Applications

Our major specialty thermoplastic brands include:

#### Estane® TPU

- **Estane® TPU**  
Elastomeric materials that bridge the gap between flexible rubber and rigid plastics
- **Estaloc® RETPU**  
Reinforced Engineered TPUs and TPU alloys for demanding applications
- **EstaGrip® TPE**  
Engineered thermoplastic systems uniting soft elastomer overmolds and rigid substrates to deliver enduring solutions
- **Isoplast® ETPU**  
Engineered thermoplastic polyurethane resins giving a range of options to meet the most demanding applications
- **Pellethane® TPU**  
Thermoplastic polyurethane elastomers offer a rarely seen combination of properties

#### Thermedics™ Polymer Products

- **Carbothane® TPU**  
Medical grade aliphatic, polycarbonate-based thermoplastic polyurethanes
- **Isoplast® ETPU**  
Aromatic polyether-based rigid TPU available in impact modified, clear and glass reinforced grades. Isoplast ETPUs are designed to meet your rigid material needs.
- **Pellethane® TPU**  
Aromatic TPUs available in polyether and polyester formulations, natural colors and a wide range of durometers.
- **Tecoflex® TPU**  
Medical grade, aliphatic, polyether-based thermoplastic polyurethane resins that are easy to process and do not yellow upon aging
- **Tecophilic® TPU**  
Medical grade, aliphatic, polyether-based thermoplastic polyurethanes specially formulated to absorb equilibrium water



- **Tecoplast® TPU**

Medical grade, aromatic, polyether-based thermoplastic polyurethanes formulated to produce rugged injection molded components

- **Tecothane® TPU**

Medical grade aromatic, polyether-based TPUs that exhibit improved solvent resistance and biostability

### Lubrizol Conductive Polymers

- **Stat-Rite® Static Control Systems**

Inherently static dissipative materials with permanent ESD protective and prevention properties. Engineered primarily for thermoforming applications in the past, Stat-Rite Static Control Systems are now available in master batch concentrates and injection molding formulations for applications requiring more specialized attributes.

- **Carbo-Rite™ Carbon Alloy Systems**

Carbon filled conductive polymers with variety of host polymers that can be used for thermoforming or injection molding applications. Carbo-Rite product line also contains carbon nanotube based systems and high temperature performance systems such as alloys PEEK.

- **Electro-Rite™ Conductive Coating Systems**

Inherently conductive polymer-coated sheets for effective electro static dissipative (ESD) protection on thermoformed trays. Electro-Rite products are used in applications where permanent ESD protection and clarity are important.

### Research, Manufacturing and Sales

The Lubrizol Corporation is geographically diverse, with an extensive global manufacturing, supply chain, technical and commercial infrastructure. Lubrizol owns and operates manufacturing facilities in 17 countries, as well as sales and technical offices around the world.

### Contact Information

For additional information about our Estane® Engineered Polymers, visit our Web site at [www.lubrizol.com](http://www.lubrizol.com).



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