Smartphone components

Breathable roofing membranes

Adhesive film for automotive interior door panels, headliners and seat covers
High-pressure hoses

Goggles, ski boots and breathable apparel

High-performance seals for hydraulic cylinders

Conveyor belts

Medical bags
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A Portfolio of Amazing Polymer Solutions

Lubrizol is more than just a leading engineered polymer solutions supplier and manufacturer; Lubrizol is a proven and trusted partner to its customers. With 50+ years of experience and a worldwide network that includes formulation design, manufacturing, R&D, applications/technical service labs, sales professionals and cutting-edge technologies, we help make our customers’ products a bit more amazing.

Lubrizol Engineered Polymers are highly versatile, easy-to-process polymers that can be utilized in film and sheet, extrusion, blow-molding, injection-molding, overmolding, calendaring and solution-coating processes. Our extensive portfolio includes resins that can be bio-based*, recyclable**, light-stable, flame-retardant, adhesive, breathable or chemically resistant, along with other features almost too numerous to mention. The scope of our technology innovation crosses many industries, with applications such as cables, belting, tubes, adhesives, films, seals and other molded products.

Lubrizol’s broad engineered polymer portfolio represents multiple product groups [both aliphatic and aromatic, polycaprolactone (PCL) copolyester, polyester, polycarbonate, polyether and copolymer-based] working together to form a single, convenient and reliable source for polymer solutions to today’s toughest application challenges.

MEET ESTANE® ENGINEERED POLYMERS
Estane® Engineered Polymers are highly versatile, thermoplastic polyurethanes (TPUs) that have been quietly but undeniably improving manufacturers’ end-use applications for over 50 years. The industrial, sports and recreation, medical and electronics industries have all seen remarkable quality and design developments, thanks in large part to these hardworking resins.

Estane Engineered Polymers can be processed on a wide range of equipment, including extrusion and injection-, blow- and compression-molding equipment. In addition, they can be vacuum-formed or solution-coated, colored and work well with a variety of fabrication techniques.

OUTSTANDING ABRASION/SCRATCH RESISTANCE
Estane Engineered Polymers are preferred by end-users, design engineers and processors for their outstanding properties in demanding, high-abuse applications. Compared to other elastomers and rigid plastics, they exhibit superior abrasion- and wear-resistance for extended part service life.

TOUGHNESS AND DURABILITY
Estane Engineered Polymers are scientifically formulated to be exceptionally tough. They provide high tensile strength and elongation properties relative to other elastomers, while delivering superior resistance to punctures and tears. Our line of RETPUs (reinforced thermoplastic polyurethanes) delivers high tensile strength and flexural modulus with impact resistance to meet, and often exceed, performance requirements of high-abuse applications.

*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.
Estane® Engineered Polymers offer a broad TPU portfolio – ranging from 60 Shore A soft TPU to very hard TPU 85 Shore D TPU hardness – that can meet customer requirements for high-performing properties like:

- Outstanding abrasion resistance
- Bio-based*
- Recyclability**
- Transparency and optical clarity
- MVT (Moisture Vapor Transmission)
- Low compression set
- Fast cycling (injection molding) for lower part cost
- Chemically resistant: fuels, oils, solvents and hydrolysis
- Adhesion to polar substrates for coextrusion or 2k molding applications
- Low temperature flexibility (down to -49°F/-45°C) and impact properties

**SPECIAL BENEFITS**

- UV resistance
- Flame-retardancy: halogen and halogen-free
- Plasticizer-free soft TPU
- Water-repellent
- Fiber-reinforced
- Static-dissipative
- Conductive and nonconductive matte, low gloss
- Microcellular TPU foam
- Compounds

**REGULATORY STATUS**

Depending on the grade, Estane Engineered Polymers are able to meet or exceed the most stringent requirements of a wide variety of regulatory codes and various industry-regulated environmental standards, such as:

- 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)

* 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.
Aliphatic Polymer solutions for improved aesthetics with UV and staining resistance for light colors.

The Right Polymer for Each Application

Technology leadership, excellence in customer service, application development, formulation, technical support and innovative products for an ever-changing marketplace make Lubrizol the supplier of choice for your high-performance end-use application needs.

Lubrizol Engineered Polymers, available in granular or powder form, are based on a solid and comprehensive product foundation spanning a broad range of chemical backbone technologies including:

Aromatic & Aliphatic Product Offering

- Green chemistry
- DIN (Deutsches Institut für Normung e. V.), ISO (International Standards Organization), ASTM (American Society for Testing and Materials), JIS (Japanese Industrial Standards) test methods
- Automotive OEM (original equipment manufacturers) specifications
- Oeko-Tex® certification for breathable TPUs

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

Bio-based* TPU by Lubrizol (originally created by Merquinsa) offers the same performance benefits as standard (petroleum-based) TPU, such as abrasion- and scratch-resistance, transparency and outstanding mechanical properties. Without sacrificing performance, these properties enable the automotive, footwear, roofing, electronics and sports and recreation industries to meet their strict quality requirements when utilizing bio-based technology in their applications.

BIO TPU™ BY LUBRIZOL, a unique solution from Lubrizol awarded by Frost & Sullivan in 2008 with the “GREEN EXCELLENCE AWARD OF THE YEAR***”, is made with bio-based materials (plant-based, 29%–75%) determined according to ASTM-D6866.

*BIO TPU™ BY LUBRIZOL, a unique solution from Lubrizol awarded by Frost & Sullivan in 2008 with the “GREEN EXCELLENCE AWARD OF THE YEAR***”, is made with bio-based materials (plant-based, 29%–75%) determined according to ASTM-D6866.

*Award originally presented to Merquinsa. Merquinsa was acquired by Lubrizol in 2011.
SOLUTIONS FOR WIRE & CABLE JACKETING

Estane® Engineered Polymers offer a broad selection of polyether- and polyester-based TPU. Polyether-based TPUs are recommended for applications requiring low-temperature flexibility, good weathering properties and resistance to wet environments and/or fungus growth. Polyester-based TPUs are generally recommended for applications requiring mechanical strength, resistance to chemical attack and heat resistance. Our product portfolio for wire & cable jacketing is based on a solid technological foundation that spans over a variety of building blocks such as polyether, NHFR (Non-Halogen Flame-Retardant), low gloss/matte aspect and hard extrudable technologies.

TODAY’S APPLICATIONS

Power/Energy cable – Building/construction, mining, coiled/spiral cables

Telecommunication cable – Telephone/data cabling, military cabling, fiber optics

Geophysical cable – Land/marine cable, ocean bottom/off-shore, umbilicals

Optical fiber cable

Automotive cable – Anti-lock braking systems (ABS), harnesses

Industrial cable – Robot/chain cable, signal cable, transportation cable

Miscellaneous – Spiral/retractable cable, video/audio cable, medical

Armor Against The Elements

A wire or cable jacket must protect the primary insulation from environmental damage, including weathering, hydrolysis or physical abuse. Over the years, TPUs have replaced PVC and rubber, particularly in dynamic cable applications: cables that must be reeled, stored and unreeled in extreme climate conditions and environments.
HIGH PERFORMANCE

Special PCL copolyester technology complements the existing polyester and polyether-based product offerings. Based on innovative Pearthane™ crystallization H technology, PCL TPU was designed specifically for high-speed extrusion and performance in order to meet new market needs for tailormade customized solutions.

TODAY’S APPLICATIONS

Multilayer or single-layer spiral hoses, braided hoses and TPU tubing are used in:

- Air-powered tools
- Robotics
- Dental equipment
- Automated equipment

Hose & Tube

Lubrizol is a leading supplier of engineered polymers to the extrusion hose & tube segment. Our unique product portfolio provides many advantages:

- Long-term flexibility
- Abrasion/cut/tear resistance
  - Kink resistance
  - Puncture resistance
- High burst-pressure resistance
- High clarity and transparency
  - Matte effect
  - Hydrolytic stability
- Fungus and oil resistance

- Pneumatic tubing
- Hydraulic brake tubes
- Fire hoses
- Garden hoses
- Transporting chemical liquids
- Transporting abrasive substances
- Transporting food and beverages
- Vacuum cleaner hoses
With the integration of Merquinsa technology, our expanded TPU product range combines solvent and solvent-free adhesives for Reactive Hot Melts (HMPURs) and Hot Melt Adhesives (HMAs) applied in heat-sealable fabrics, shoe stiffeners (toe puffs and counters) and adhesive films.

Through expert formulation, Estane® Engineered Polymers for adhesives can be made to be:

- Soft touch
- Elastic to rigid
- Clear to matte or opaque
- Low to high melting points
- Easily adhered (even on difficult substrates)
- Hydrolysis-resistant
- Easy to process
- Outstanding bonding strength

**TODAY’S APPLICATIONS**

- Adhesive films: Seam sealing tapes and fire hoses
- Footwear: Sole bonding, toe puff and counters, and fabric heat sealing
- Textile bonding: Seam tapes, lamination, linings for leather goods and clothing
- Automotive: Door panels, dashboards, headliners and upholstery
- Furniture: Wood/PVC lamination, edge banding, post-forming, profile wrapping, doors and desktops
- Coated Textiles: Tie coats for conveyor belts and inflatables
- Others: Bookbinding, construction, do-it-yourself, industrial, paintbrushes, PVC pipes and foam bonding
HIGH-PERFORMANCE TEXTILES

High-performance textiles coated with Estane® Engineered Polymers are being used as high-quality material in a wide range of coating applications including:

TODAY’S APPLICATIONS

- Inflatable rafts
- Life jackets/buoyancy aids
- Collapsible drinking water and fuel bags
- Conveyor belts (food and non-food)
- Protective clothing
- Sewer linings (CIPP)

- Hot air balloons
- Synthetic leather
- Synthetic leather washers
- Medical gowns
- Breathable roofing membranes

Coated Fabrics

Estane Engineered Polymer resins offer unique opportunities for fabric coating products. When applied to topcoats, they exhibit excellent properties from either direct or transfer coating. Key benefits include:

- Toughness and abrasion resistance
- Broad range of hardnesses (75 A> 50D)
- Chemical resistance to fuels, oils, acids and solvents
  - Heat resistance
- Low temperature flexibility (down to -49°F/-45°C)
- Very high adhesion to many substrates
- UV stability (UV stabilized aromatic TPUs and/or aliphatic TPUs)

CURED-IN-PLACE PIPE (CIPP)

The cured-in-place pipe process is making a significant contribution in the rehabilitation of leaking or failing wastewater pipes. This “no dig/trenchless” technology provides minimal disruption around the pipe rehabilitation. A felt tube is covered with a mixture of thermosetting resin and catalyst and then inverted into the damaged pipe. Heat is used to cure the tube and creates a new surface for the existing pipe. The inner part of the felt tube is usually lined to allow proper curing of the resin and good shaping of the tube. Estane Engineered Polymers offer an unmatched combination of heat and chemical resistance, making it ideal for lining the resin-filled felt tube. They are also available as a soft material, which allows for easier installation of the liner tube in the most complicated sewer systems.

Estane Engineered Polymers have been designed to be compatible with the most commonly used thermoset resins: polyester, vinyl ester and epoxies. They are compatible with the following activation systems: ambient curing, hot water, steam, UV and LED lighting.
Estane Engineered Polymers is the largest global supplier of resins for film and sheet. The product line spans both aromatic and aliphatic chemistries to meet the variety of performance requirements needed in both consumer and industrial applications. Film and sheet made from Estane Engineered Polymers are excellent for:

- **Outstanding low-temperature flexibility**
- **Excellent tear-, abrasion- and puncture-resistance**
- **Excellent clarity, colorability and printability**
- **Oeko-Tex® certified**

Film and sheet made from Estane Engineered Polymers can be laminated, embossed and pigmented on various substrates to provide a durable and attractive fabric. Our polyester-based resin exhibits excellent oil, fuel and solvent resistance, high-temperature performance as well as good UV and hydrolytic stability. Our polyether-based resins exhibit excellent low-temperature properties, hydrolysis and fungus resistance.

**TODAY’S APPLICATIONS**

- Industrial bladders
- Architectural glass lamination
- Hot melt adhesives
- Breathable textiles
- Ballistic glass
- Automotive interior parts
- Air mattresses/pillows
- Protective packaging
- Surface protection
- Wound care products (dressings and plasters)

**BREATHABLE FILM & SHEET**

Estane Engineered Polymers offers resins to help meet the requirements for moisture vapor transmission (MVT) in both consumer and industrial applications. Our MVT resins allow for moisture to pass through the monolithic membrane and release it on the other side of the membrane.

For consumer applications, there is the desire to be comfortable in all climates. Our MVT resins allow outerwear to be waterproof, yet breathable. The film and sheet are not only functional for waterproof and breathable applications; they are tough, with a soft and quiet hand for the comfort of the wearer.

For industrial applications, MVT film and sheet made from Estane Engineered Polymers brings a new level of barrier protection and toughness yet allows for moisture vapor to pass through.

**TODAY’S APPLICATIONS**

- Waterproof, breathable outerwear
- Upholstery
- Building and construction protection products such as roof membranes
- Shoe linings
- Military/heavy-duty work wear
- Medical apparel
- Tents

**Roofing Membrane**

For consumer applications, there is the desire to be comfortable in all climates. Our MVT resins allow outerwear to be waterproof, yet breathable. The film and sheet are not only functional for waterproof and breathable applications; they are tough, with a soft and quiet hand for the comfort of the wearer.

For industrial applications, MVT film and sheet made from Estane Engineered Polymers brings a new level of barrier protection and toughness yet allows for moisture vapor to pass through.
INJECTION MOLDING

In a growing number of injection-molding applications – industrial and consumer – Estane® Engineered Polymers are replacing traditional materials such as rubber, thermoplastic polyolefins and other plastic materials. Our new polycaprolactone and improved polyester fast-cycling molding portfolio provides such benefits as:

- Low density
- Faster cycle time
- Improved consistency
- Reduced yellowness
- Wider temperature performance
- Increased consistency
- Overmolding on other thermoplastics

THE PERFORMANCE YOU NEED

Lubrizol has expanded our polyether molding line of Estane Engineered Polymers for applications requiring greater hydrolysis resistance, fungus resistance or lower temperature flexibility. We also offer a general-purpose series of products with basic TPU performance characteristics (AE series) and an upgraded hydrolysis-resistant line (AB series), super soft and rigid, transparent series, which still outperforms traditional thermoplastic elastomers.

Seals, Gaskets & O-Rings

Estane Engineered Polymers provide a broad range of high-performance resins that have been specially designed for seals, gaskets and O-rings. TPU based seals, gaskets and O-rings find their way into highly demanding markets such as aerospace, automotive, medical, heavy-duty industry equipment and many others. These polymers offer unprecedented properties including:

- Low compression set at high temperatures
- Good tear strength
- Hydrolytic stability
- Resistance to low and high temperatures
- Resistance to chemicals and acid

Recent innovations include Pearthane® H technology for high pressure hydraulic seals featuring outstanding low compression set values and excellent flow properties.

Where dimensional stability, increased stiffness and aesthetics are required for a wide variety of tough abusive applications, we developed the Estaloc™ RETPU portfolio to provide a balance of properties unmatched by other polymer systems.

TODAY’S APPLICATIONS

- Automotive side molding
- Automotive interior goods such as gear knobs, armrests, consoles and more
- Mass transit and industrial transportation applications
- Consumer goods such as cell phone components, sunglasses and more
- Lawn and garden applications
- Recreational sporting goods
  - Animal tags
  - Irrigation components
  - Wheels/Rollers/Belts
  - Seals and gaskets
  - Living hinges
CONVEYOR BELTS

Estane® Engineered Polymers offer a wide range of resins for making state-of-the-art conveyor belts. Our wide range of polyesters, polyethers, polycaprolactones and other specialties enables belt manufacturers to meet very stringent specifications.

TODAY’S APPLICATIONS

- Food conveyor belts (meat, bakery, fish, etc.)
- Woodpress belts
- Printing blanket belts
- Airport belts

DRIVING & TIMING BELTS

Estane Engineered Polymers can also be found in highly demanding applications such as drive/timing belts where high power transmission is required together with extended durability. In addition, they meet stringent requirements such as UV stability and resistance to industrial fluids such as oils, hydraulic fluids and lubricants.

KEY FEATURES

- Outstanding abrasion resistance
- Low creep properties
- High grip
- Good oil and grease resistance
- High tension set
THE RITE CHOICE IN ESD PROTECTION

The electronics industry is known for rapid growth and innovation. To keep up, you need a supplier that functions the same way. Estane® Engineered Polymers offer the widest variety of permanent static-control polymers and highly flexible, durable engineered polymer choices for electronic applications. Whether the process involves thermoforming, injection molding or extruding, or the applications range from disk drives to semiconductor manufacturing, packaging to electronic components, we offer unique, customized product formulations available in sheet, masterbatch and compounds ready to use with a variety of host polymers.

In response to the strict requirements of the electronics industry, Lubrizol pioneered engineered static control technology more than a decade ago with the invention of:

- **Stat-Rite®** – The world’s first permanently static dissipative polymer
- **Carbo-Rite™** – The ultimate conductive polymer product line

Aliphatic, aromatics, NHFR, bio-based TPU, GFTPU and soft plasticizer-free products complement the offering for electronic applications.

TODAY’S APPLICATIONS

- **Smartphones** – Protective cases, display beadings, keypads, side keys, gaskets, plug covers and headsets
- **Displays and TVs** – Power cords and piano black frames
- **Office equipment** – Housing and components, appliances and business machines
- **Cleanroom** – Softwall curtains and flooring, wipers and gloves
- **Dissipative packaging** – trays and thermoforming sheets
LIFESCIENCE POLYMERS

Exceptional healthcare products with proven performance begin with the polymer technology of Lubrizol LifeScience Polymers. Our extensive technical capabilities ensure that our customers receive products with the reliable, precise functionality they require, and our international presence provides stable global supply and sales support. Our specialty TPUs enable the production of safe, high-performing medical products, including bags, tubing and implants. Specifically formulated for superior biostability, biocompatibility and processing versatility, our polymer systems are trusted throughout the industry to help provide in-body softening and increased patient comfort. Our technologies are used in numerous applications, including cardiology, medical supplies, orthopedics, urology, vascular access and wound care. Lubrizol LifeScience Polymers can extrude tubing to with the most demanding specifications including:

- Extremely small diameters or complex lumen configurations
- Clear, pigmented or up to 60% radiopaque-filled tubing
- Coextruded tubing with radiopaque striping

All of our tubing conforms to the specifications of Good Manufacturing Practices and ISO:9001. Engineered to exhibit specific properties, including multilayer functionality and tight tolerances, tubing from LifeScience Polymers delivers dependable, proven performance for cardio/neuro management, cardiovascular access, nutritional enteric, tracheostomy and urological applications.

TODAY’S APPLICATIONS

- Cardiology
- Medical supplies
- Orthopedics
- Urology
- Vascular access
- Wound care

Lubrizol polymers for use in the medical and healthcare market are available under the following trademarks: Carbothane®, Isoplast®, Pellethane®, Tecoflex™, Tecophilic™, Tecoplast™ and Tecothane™.

To learn more about our products for medical applications, contact your account manager or visit us at www.lubrizol.com/lifesciencepolymers.
Meeting the Needs of a Range of Manufacturing Processes

Estane® Engineered Polymers are highly versatile materials that can be processed through a number of methods. Our technical experts have extensive experience and knowledge with each of these processes to help you select the right material and quickly scale up your production.

SPECIFIC PRODUCTS ARE AVAILABLE FOR USE WITH FOLLOWING PROCESSING EQUIPMENT:

- Injection molding, overmolding
- Extrusion: Blown and flat film, tubes, belts and profiles
- Extrusion coating, melt roll coating and calendaring
- Solution coating
THE LUBRIZOL CORPORATION

The Lubrizol Corporation, a Berkshire Hathaway company, is a technology-driven global company that combines complex, specialty chemicals to optimize the quality, performance and value of customers’ products while reducing their environmental impact.

Lubrizol Advanced Materials has an impressive history, extending back to the 1870s when it was BFGoodrich. Recently, the acquisition of Merquinsa, a leading TPU specialty producer, added a series of differentiated product lines. Today, this fast-growing business segment is a leading global producer of advanced specialty polymers, polymer-based additives and chemical additives used in everyday consumer and industrial applications.

A BIT MORE AMAZING

What our customers do every day is exciting. And what we do is help perfect whatever they do – whether it’s overcoming challenges, taking advantage of opportunities or bringing strong, often-amazing products and services to market.

We work alongside companies, providing spirited teamwork, chemical expertise, unique resources, an efficient network and much more. Lubrizol is, in fact, built to be a catalyst to your success. Our engineered polymers and the people who develop them allow OEMs and processors to go beyond. To do more. To expect more.

How far away is amazing? It’s much closer when you have a partner such as Lubrizol.
**Product Portfolio**

**CARBO-RITE®**
Carbo-Rite conductive compounds and sheet products provide permanent ESD (electrostatic dissipative) solutions to our customers. Lubrizol uses a clean manufacturing environment with state-of-the-art compounding equipment to produce cost-effective ESD protective compounds with a high level of consistency from lot to lot.

**ESTANE®**
Our comprehensive portfolio of Estane TPUs offers high-performance polyester, polycaprolactone and polyether-based resins and compounds in a broad range of hardness to meet a variety of application needs.

**ESTALOC™ RETPU**
Estaloc Reinforced Engineering TPUs (RETPU) are tough, high-flex modulus materials providing dimensional stability, paintability with no primers and excellent adhesion to a variety of overmolding substrates.

**ISOPLAST® ETP**
Isoplast Engineered Thermoplastics (ETP) with high tensile strength and impact resistance are ideal for meeting rigid polymer requirements. In addition, Isoplast combines the toughness and dimensional stability of amorphous resins with the chemical resistance of crystalline materials.

To learn more about our products for medical applications, contact your account manager or visit us at www.lubrizol.com/lifesciencepolymers.

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

**PEARLBOND™**
Especially designed for solvent-free adhesives, the Pearlbond TPU portfolio comprises TPU for HMPUR, as well as TPU for HMA's applied in heat-sealable fabrics, shoe stiffeners (toe puffs and counters) and adhesive films.

**PEARLBOND™ ECO**
Pearlbond ECO is Lubrizol's bio-based TPU with high renewable material content with very high thermoplasticity that can be added to HMPUR formulations to improve crystallization speed, and also can be used for hot-melt adhesives in heat-sealable fabrics and in toe puffs and counters.

**PEARLBOND™ ECO**
Pearlthane TPUs for extrusion, injection-molding and compounding include aromatic and aliphatic TPU resins, from 70 Shore A to 77 Shore D hardness.

**PEARLSKICK™**
Pearlstick TPU grades for solvent-based adhesives are mainly crystalline polymers that vary from each other basically in their structures, polyol types and molecular weights.

**PEARLTHANE™**
Pearlthane TPUs for calendaring and sintering include innovative technologies such as low-gloss Pearlcoat Activa TPU products.

**PEARLTHANE™ ECO**
Pearlthane ECO is a bio-based line of polymers made with renewable material content from 28% of total volume. These resins can be processed through injection-molding and extrusion.

**PEARLCOAT™**
Pearlcoat TPUs for calendaring and sintering include innovative technologies such as low-gloss Pearlcoat Activa TPU products.

**STAT-RITE®**
Stat-Rite polymer alloys set the new standard for test and design engineers requiring permanent static dissipation without compromising cleanliness. Unlike old technologies, such as conductive fillers and chemical antistats, Stat-Rite polymer alloys blend a proprietary, inherently dissipative polymer with a variety of base polymers.
Global Presence

Our global presence means we have the application and development laboratories (with technical service ability) already in place, as well as worldwide production capabilities and renowned customer service. We are also a specialty producer of performance coatings and other unique products for apparel. Teaming with Lubrizol simplifies a complex global supply chain.
The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end-product performance. Because of the variation and methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc., shall not be liable for and the customer assumes all risk and liability of any use or handling of the material beyond Lubrizol Advanced Materials, Inc.’s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.