

Lubrizol

Customized Polymer Solutions



Lubrizol LifeScience Polymers

Links Science to Life™

Lubrizol LifeScience Polymers

Exceptional healthcare products with proven performance begin with the polymer technology of Lubrizol LifeScience Polymers. We work in collaboration with our customers to create functional polymer solutions for various applications. Developing superior healthcare products requires advanced polymer science and processing knowledge. LifeScience Polymers has both – enabling us to modify our polymers and systems to meet your application demands. We're your link to the innovative technologies that improve your products – and the lives of consumers who use them.



At **Lubrizol LifeScience Polymers**, we link science to life. Through a unique combination of the right chemistry, market knowledge and passion for excellence, we deliver innovative solutions to the healthcare industry – ultimately – improving lives.

Backed by The Lubrizol Corporation

The Lubrizol Corporation, a Berkshire Hathaway Company, is known worldwide as a leading innovator. With an extensive infrastructure composed of global manufacturing, supply chains, technical services and commercial businesses, Lubrizol links its customers to the latest technology and product advancements. LifeScience Polymers is fueled by Lubrizol's dedication and passion, pioneering polymer science the healthcare industry needs.

Global Solutions

Our international presence allows us to support growth worldwide and to invest in resources that expand services, helping you develop your business. A strong understanding of international standards, in addition to well-equipped, customer-oriented laboratories, enables us to maintain stable global supply and sales support.

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A Multifunctional Approach

Lubrizol's comprehensive expertise in surface modification and protection, rheology modification, and film formation extends to a variety of medical and pharmaceutical applications. This diverse specialization allows Lubrizol LifeScience Polymers to tailor polymer systems for a variety of healthcare applications with greater precision, drawing upon technologies that interact well together, to give your products a competitive edge in the marketplace.

Technical Capabilities

Our extensive technical capabilities ensure that our customers receive products with the reliable, precise functionality they require and the peace of mind they need. From research and development, to analytical services and applications testing, we have experts, resources and knowledge to assist our customers with design, development, processing and more.

Technologies Portfolio

Specialty thermoplastic polyurethanes (TPUs): Our polyethers, polyesters and polycarbonates, created in both aliphatic and aromatic forms, are used in countless medical applications.

Pharmaceutical polymers: For a variety of applications, including those requiring controlled-release drug delivery, our carbomer and polycarbophil products provide dependable results.

Multifunctional ingredients: From emollients and film formers, to stabilizers and emulsifiers, our products provide the functionality needed for your application.

Committed to the Markets We Supply

Oral Treatments

Our pharmaceutical excipients provide a unique combination of API release control, binding and mucoadhesion in oral solid dose, as well as suspension and rheology in oral liquids.



Oral Care

Used in toothpastes, mouthwash, fixatives and professional dentistry, our polymer technology improves product performance and provides rheology modification, suspension, bioadhesion and durability that applications require.



Dermal Treatments

Our formulation knowledge, as well as medical-grade TPUs and rheology modifiers, enables us to work collaboratively with customers to create unique and effective products and formulations.



Medical Devices

Use of LifeScience Polymers technology enables the production of safe, high-performing medical products, including bags, tubing and implantables.



A History of Growth and Innovation

- 1928 • The Lubrizol Corporation is founded.
- 1958 • BF Goodrich invents Carbopol® polymer.
- 1959 • Engineered plastics are born with BF Goodrich's invention of TPU.
- 1992 • BF Goodrich introduces Pemulen™ TR-1 and TR-2 polymeric emulsifiers.
- 2000 • BF Goodrich's former specialty chemicals company becomes Noveon®
- 2003 • Noveon acquires Thermedics™ Polymer Products, enhancing the medical business with several product brands, including Tecothane™ and Tecoflex™
- 2004 • Lubrizol acquires Noveon, adding BF Goodrich and Thermedics Polymer Products technology portfolios.
- 2009 • Lubrizol acquires Dow and SK Chemicals, expanding the TPU business with several product brands, including Isoplast® and Pellethane®
- 2011 • Lubrizol becomes a wholly owned subsidiary of Berkshire Hathaway.
- 2011 • Lubrizol LifeScience Polymers is created to align medical and pharmaceutical technologies and services.

LifeScience Polymers | Oral Treatments | Oral Care | Dermal Treatments | Medical Devices

For more information,
visit Lubrizol.com/LifeSciencePolymers
Or call us at 1-216-447-5000 / 888-234-2436 (toll free)

Lubrizol

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