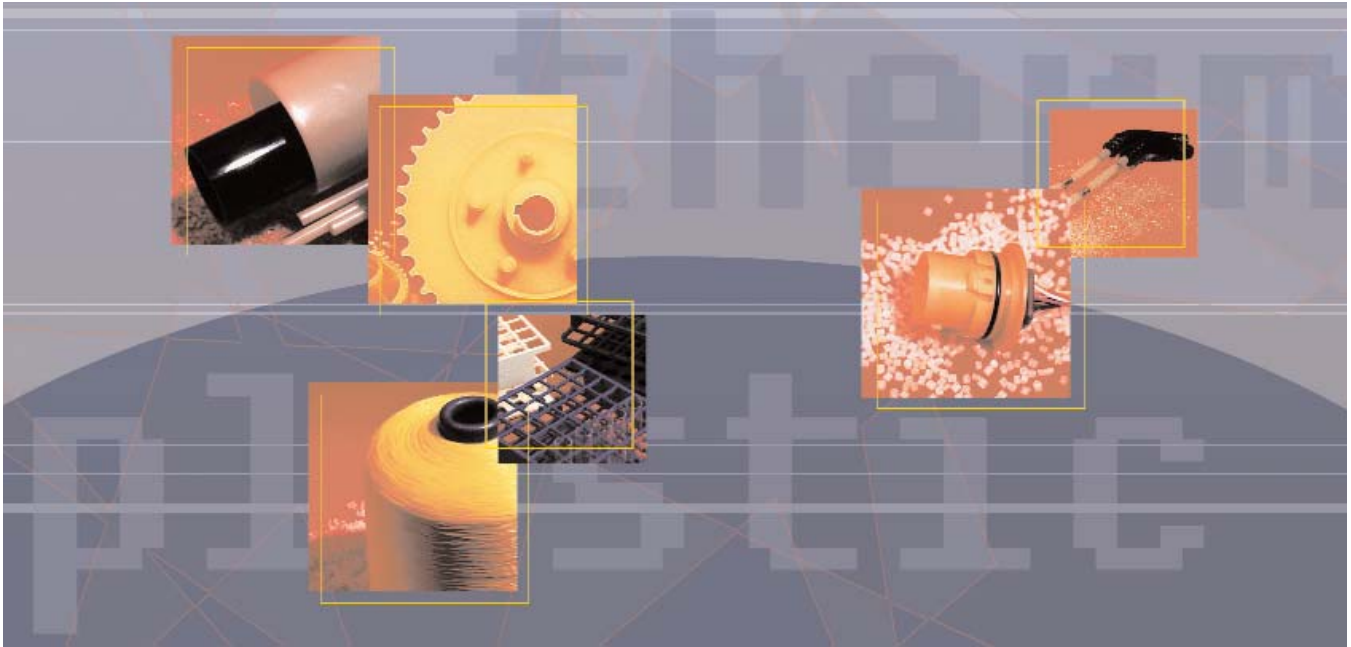


Carilon Thermoplastic Polymers

Next-Generation Plastics from SRI International



SRI International offers Carilon thermoplastic polymers for multiple applications in the engineering thermoplastic and fiber markets. Originally developed by Shell Oil Company and now available for license exclusively through SRI, Carilon polymers offer superior strength, wear and low permeability. These features make them ideal for use in under-the-hood automotive parts; electrical and electronics systems; business machines and consumer appliances; film, fiber and protective coatings; laboratory supplies, and industrial applications.

Representing the next wave in high-performance polymeric materials, Carilon plastics are based on a semicrystalline thermoplastic technology, exhibiting performance characteristics that are maintained even at high temperatures. Carilon's exceptional value lies in the broad range of these characteristics not found in any existing class of engineering thermoplastic polymers.

Excellent Physical Characteristics

Carilon polymers offer a broad range of features:

- Outstanding chemical resistance and low permeability
- Superior strength, wear and friction characteristics
- High resistance to fatigue, creep, swelling and repetitive deformation
- Excellent balance of stiffness and toughness over a wide temperature range
- High-quality moldings at short cycle times
- Resistance to a variety of fuels, organic solvents and aggressive aqueous media
- Halogen/red phosphor-free flame retardancy



Industry Solutions

Carilon polymers' unique properties make them ideal for high-performance needs across several industries. Here are a few:



"Under-the-hood" automotive parts — fuel lines and connectors, fuel-pump components, fuel tanks, filters, injection rails, inlet manifolds, gears, wheel covers and exterior parts

Advantages: Good chemical and permeation resistance, superior impact strength, and good high-temperature performance



Business machines and consumer appliances — gears, blades, reservoirs and valves

Advantages: Superior wear and abrasion resistance, high creep resistance, very good hydrolytic stability and outstanding stiffness/toughness balance



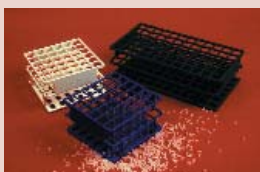
Electrical and electronics systems — connectors, switches, sockets and fuse holders

Advantages: Halogen/red phosphor-free, fire-retardant, good toughness and tracking resistance, high resilience and good processability



Film, fiber and protective coatings — tie cord, rubber reinforcement and packaging

Advantages: High strength, high modulus, good processability, chemical resistance and very good barrier performance



Laboratory supplies — test tube holders and clamps

Advantages: Hydrolysis resistance, chemical resistance, toughness, good processability and sterilizability



Industrial uses — bearings, conveyor systems, hoses and liners

Advantages: High abrasion and corrosion resistance, very good chemical and permeation resistance, and good mechanical properties at elevated temperatures

Key Benefits of Carilon

- **Performance in harsh environments**
Carilon polymers perform well in fuels, lubricants, solvents, salts, and hot water.
- **Process savings**
Carilon's shorter molding cycles provide warp-free moldings — no predrying or conditioning is necessary.
- **Durability**
Carilon polymers are very strong and wear well.
- **Design freedom**
Carilon's resilience and toughness, and the fact that it is ductile to -30°C, make it an option in product designs that must be robust and durable.

Contact Us

For more information about Carilon thermoplastic polymers, please contact SRI's Inquiry line by phone: 650-859-4771, by fax: 650-859-4111, or send email to inquiry.line@sri.com.

About SRI International

Silicon Valley-based SRI International, with offices in Washington, D.C. and Menlo Park, CA, is one of the world's leading independent research and technology development organizations. Founded in 1946 as Stanford Research Institute, SRI has been meeting the strategic needs of commercial and government clients for more than 55 years. As part of its strategy to bring its technologies to the marketplace, SRI licenses its technologies, forms strategic partnerships and creates spin-off companies.



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