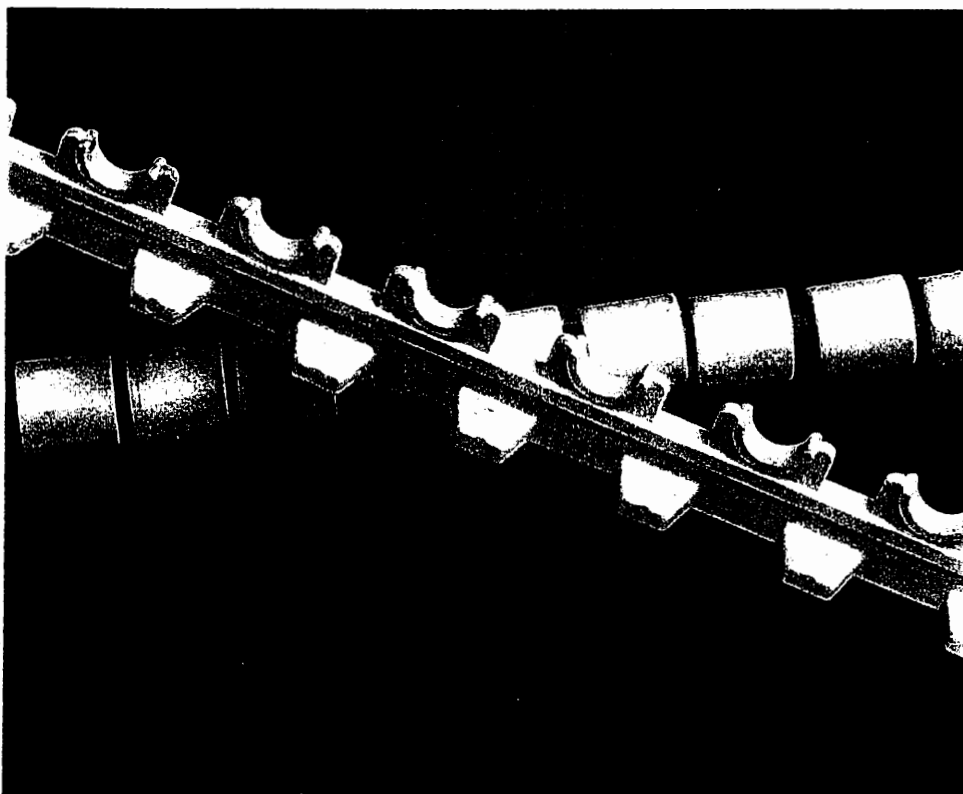




Shell Chemicals

CARILON POLYMERS CASE HISTORY

RTP Company (Shuttleworth)



RTP Company's recommendation of CARILON™ Polymers to Shuttleworth, a leading conveyor systems manufacturer, resulted in improved performance, higher efficiency and reduced downtime.

The RTP 4500 Series compound, based on CARILON Polymers, was chosen because of its load-handling capabilities under various speeds and temperatures. The compound also features inherent lubricity, chemical resistance, and reinforcement specifically for this application. Its success in the conveyor systems has led the customer to use bearings, shaft supports and separators molded from the CARILON Polymers compound as well. For more information about CARILON Polymers, call 1-888-CARILON (888-227-4566).



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PRESS INFORMATION

CARILON Polymers Roll Out Performance Solutions For Conveyor Systems

RTP Company Case History

When Shuttleworth, Inc., a leading conveyor systems manufacturer, was searching for a polymer to improve performance and help move products smoothly, they turned to RTP Company for a solution. RTP Company, a worldwide compounder of thermoplastics, recommended Shell Chemicals¹ CARILON² Polymers for the application and as a result, enabled Shuttleworth's customers to achieve higher efficiency, extended performance and reduced downtime.

Sold for packaging, assembly and cleanroom use, the Shuttleworth conveyor and material handling systems offer unique, low-line pressure to gently move products down the line. As precision conveyors, they are built to prevent damage to lighter-weight products. Because Shuttleworth sets exceptionally high performance standards for its systems, its customers have come to expect the same.

"We're very tough on our conveyors. And so are our customers," stated Shuttleworth engineer Klaus Daenzer. "They simply will not tolerate repairs and bushing replacements when they're running our systems 24 hours a day. That's why Shuttleworth routinely seeks ways to improve its product and ensure customer satisfaction."

When Shuttleworth approached RTP Company engineers for a new material to replace its standard-wear PPA compound, the company recommended an RTP 4500 Series compound based on CARILON Polymers. While these polymers feature inherent lubricity and chemical resistance, the CARILON Polymers compound was developed with added lubrication and reinforcement specifically for this application. This formulation was chosen because of its load-handling capabilities under various speeds and temperatures. As a result of the recommendation and the impressive performance improvements in trial conveyor systems,

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¹ The expression 'Shell Chemicals' refers to the companies of the Royal Dutch/Shell Group which are engaged in the chemicals business. Each of the companies which make up the Royal Dutch/Shell Group of companies is an independent entity and has its own separate identity.

² CARILON is a Shell trademark.

Shuttleworth now uses bearings, shaft supports and separators molded from the RTP 4500 Series CARILON Polymer compound.

"We're always willing to try something new," said Daenzer. "RTP Company was very responsive when we were searching for a better material. Their engineers are knowledgeable about what's new in the market, and their recommended formulation has improved our products' performance."

Likewise, RTP Company was pleased to be part of the solution. "As a licensed global compounder of CARILON Polymers, we are familiar with and appreciate their good balance of properties," noted Paul Vanyo, market analyst for RTP. "CARILON Polymers' excellent wear resistance made it ideal for the Shuttleworth conveyor application. In addition, CARILON Polymers' resistance to a wide range of chemicals offers endless possibilities in automotive, electrical, fluid handling and other industrial applications."

Shuttleworth is researching additional applications for the RTP 4500 Series compound, including testing in wet washdown environments. Commonly used in food production and packaging applications, these environments are typically cool. "Some materials provide good wear properties but will not tolerate much water at lower temperatures. CARILON Polymers seem to meet our needs, and the test results look very promising," said Daenzer.

CARILON Polymers are engineering thermoplastics with a unique combination of physical properties compared to traditional materials such as polyamides and polyacetals. These properties include strength, stiffness, performance over a broad temperature range, toughness, superior wear and friction characteristics, low hydrocarbon permeability and resistance to a variety of aggressive chemicals.

CARILON Polymers are available in extrusion grades and a variety of injection molding grades, including glass reinforced, flame retardant, mineral filled and lubricated compounds. The polymers can be easily processed on conventional molding and extrusion equipment, and their fast set-up can lead to significantly reduced cycle times in injection molding applications.

For more information on CARILON Polymers, visit the Shell Chemicals Web site at www.shellchemicals.com. In the United States, customers can write to Shell Chemical Company, P.O. Box 2463, Houston, Texas 77252-2463 or call toll free at 1-888-CARILON (1-888-227-4566).

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