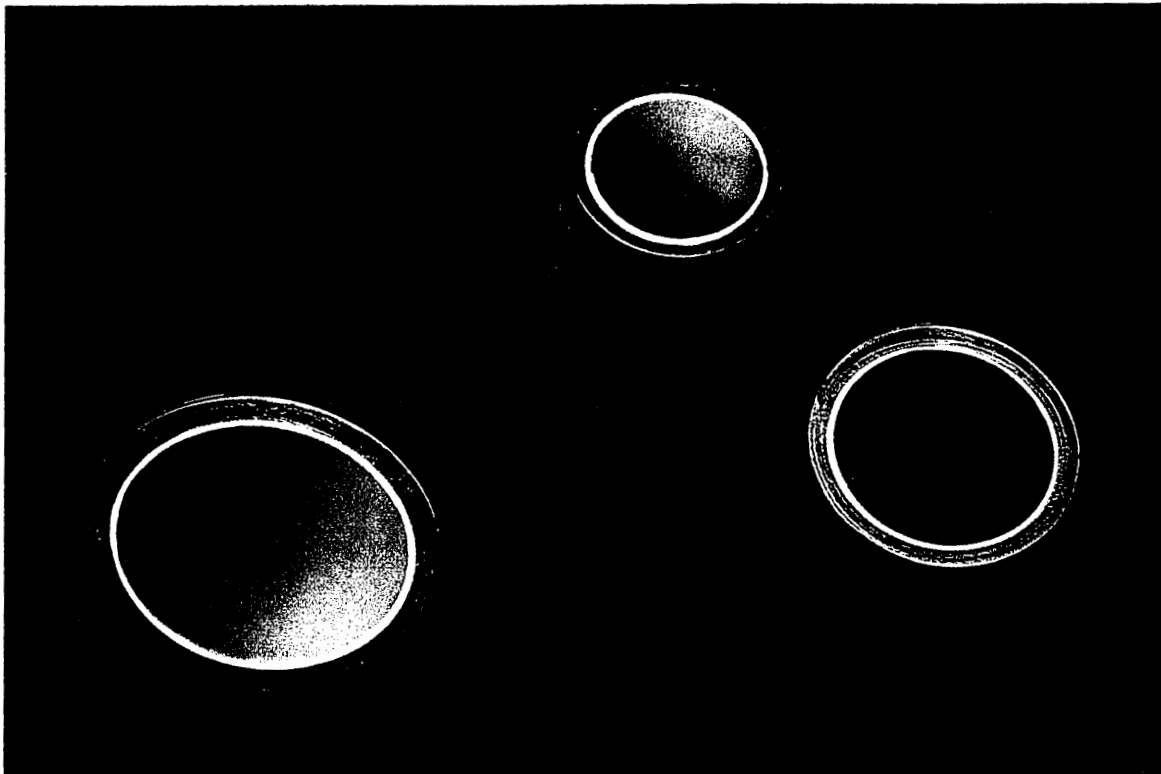




Shell Chemicals

CARILON POLYMERS CASE HISTORY

NUPI Smartflex™ and OilTech™ Multilayer Pipes



A combination of toughness, chemical resistance, low permeability and a favorable cost performance led NUPI to select CARILON™ Polymers as the inner barrier layer in its high-tech Smartflex™ and OilTech™ multilayer pipes. A cost-effective and long-lasting alternative to traditional metal pipes, Smartflex systems are now installed in underground fuel delivery systems at gasoline stations throughout the world. For more information about CARILON Polymers, call 1-888-CARILON (888-227-4566).



Shell Chemicals

PRESS INFORMATION

CARILON Polymers Find New Applications In the Storage and Handling of Chemicals

NUPI Case History

NUPI, headquartered in Italy, selected Shell Chemicals¹ CARILON² Polymers to be the inner barrier layer in its high-tech Smartflex™ and OilTech™ multilayer pipes. Their choice of CARILON Polymers was based on the materials' combination of chemical resistance, low permeability and favorable cost performance balance.

Smartflex and OilTech pipes are designed to be a cost-effective and long-lasting alternative to traditional metal pipes for the handling of fuels. Smartflex systems are now installed in underground fuel delivery systems at gasoline stations throughout the world. NUPI developed their OilTech product line for the handling of oil products, particularly crude oil and its derivatives.

Many plastics have some of the properties, such as toughness, low permeability, elasticity and strength, that are required for use with hydrocarbons or aggressive chemicals. However, CARILON Polymers are the only material to cost-effectively combine all of these properties, eliminating many obstacles that previously limited plastic pipes from use in oil and gas applications.

"The application of CARILON Polymers has allowed us to eliminate many challenges faced when handling aggressive fluids," stated Andrea Ticci, product manager for NUPI's Smartflex system. "Traditional plastics cannot fully guarantee impermeability and mechanical strength, and metals are costly to install and are not as durable. With CARILON Polymers, the Smartflex system can offer low load losses and good resistance to corrosion, abrasion and attack by microorganisms," Ticci added.

"It was exciting for Shell Chemicals to be involved with NUPI as it entered this new product development area," noted Cary Veith, marketing manager for CARILON Polymers,

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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.

“particularly since our polymers provided such a valuable cost-savings solution to this long-term problem.”

CARILON Polymers are engineering thermoplastics with a unique combination of physical properties compared to traditional materials such as polyamides and polyethylene. 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.

NUPI specializes in the manufacturing of high-tech multi-layer pipes and has four production plants situated in Northern Italy. NUPI's Smartlex system, made with an outer layer of HDPE and an inner barrier layer of CARILON Polymers, includes single-wall pipes for suction-type systems.

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). In Europe, customers can write to Shell Chemicals Ltd., Shell Centre, SEI 7NA or call +44 171 934 3300.

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