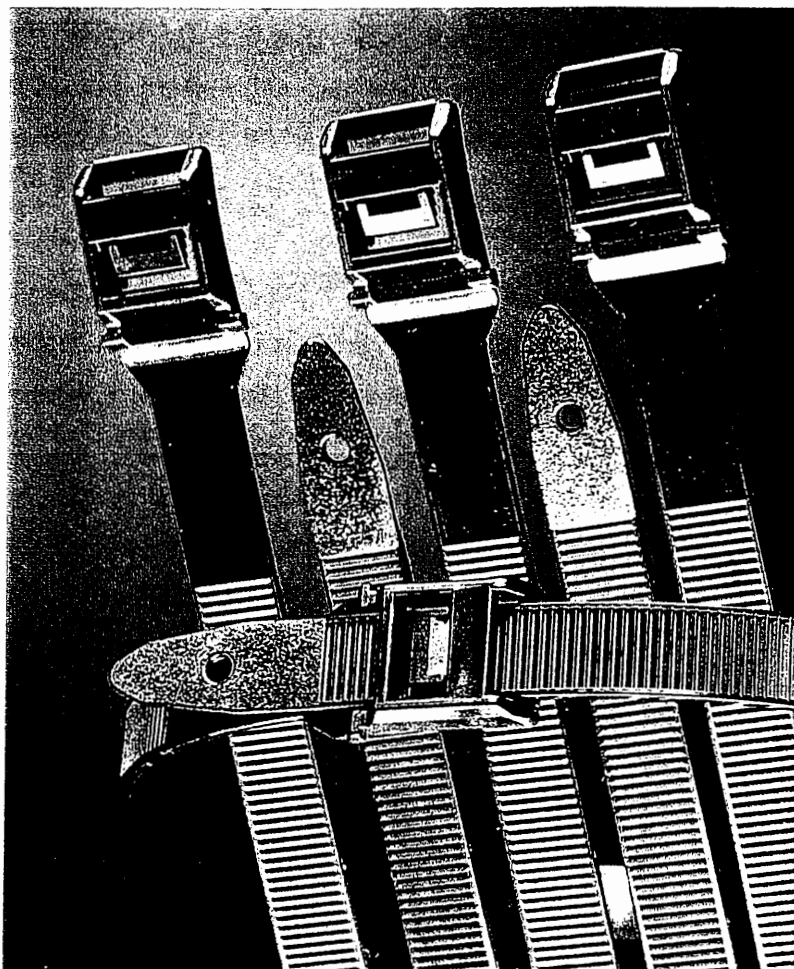




Shell Chemicals

CARILON POLYMERS CASE HISTORY

Hellermann Tyton Cable Ducting Ties



CARILON™ Polymers' unique strength, flexibility and resilience properties allowed Hellermann Tyton to develop plastic cable ties strong enough to replace titanium bands. Designed with a minimum tensile strength of 500 pounds, the Hellermann Tyton tie is the first plastic fastener with strength comparable to that of most metal banding systems. For that reason, Hellermann Tyton refers to its new product as "strong as steel" without the drawbacks of metal, including susceptibility to corrosion and the difficulties of fitting and replacing metal bands in offshore and other hostile environments. For more information about CARILON Polymers, call 1-888-CARILON (888-227-4566).



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PRESS INFORMATION

CARILON Polymers Provide Unmatched Strength and Flexibility to Cable Tie Industry

Hellermann Tyton Case History

The introduction of heavy-duty cable ties made with CARILON¹ Polymers, designed to deliver twice the strength of any other plastic banding system, comes as welcome news for divers fixing undersea cable ducting where titanium banding has traditionally been used.

The world's first 500 pound Plastic Tie from Hellermann Tyton incorporates the unique strength, flexibility and resilience properties of CARILON Polymers, engineering thermoplastic polymers from Shell Chemicals². Designed with a minimum tensile strength of 500 pounds, the Hellermann Tyton tie is the first plastic fastener with strength comparable to that of most metal banding systems. For that reason, Hellermann Tyton proudly refers to its revolutionary new product as "strong as steel" without the drawbacks of metal, including susceptibility to corrosion and difficulty fitting and replacing metal bands.

"Our cable tie is simple and quick to assemble in heavy-duty industrial applications," said Jeff Olsen, marketing manager for construction products at Hellermann. "Our customers are particularly pleased that it can manage long-term loads and high-burst force with minimal creep and expansion."

In addition, CARILON Polymers are very tolerant to extreme temperatures allowing the tie to perform well in sub-zero and elevated temperatures and to withstand the corrosive effects of hydrocarbons, solvents and sea water, unlike standard polyamide ties. The tie includes a low-profile head to limit the protrusion of sharp edges after the band has been fitted, plus a head cover to protect against abrasion and to deter tampering. "These features make the ties particularly appropriate for offshore, subsea and other hostile environment applications," added Steven Blanks, Hellermann product design manager.

CARILON Polymers offer customers a special balance of processing and performance properties they can use to meet a broad range of end-use requirements.

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¹ CARILON is a Shell trademark.

² 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.

"Hellermann Tyton had wonderful foresight to recognize the potential for CARILON Polymers in the plastic tie market," noted Steve Kremnitzer, CARILON Polymers marketing manager for Shell. "We worked closely with their designers to develop a special grade of CARILON Polymers for this application, one that combines toughness with good flow characteristics and includes additional UV-stabilizing additives."

These Hellermann Tyton ties are available in two specifications. The XPE500L is 750mm long x 20mm wide and is designed to hold cables with diameters between 95mm and 200mm. The XPE500M is 400mm long x 20mm wide and is recommended for cables with diameters between 50mm and 95mm. In both instances, the optional head cover, XPE500C, can be molded to include a company logo.

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

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