Rilsan® / Rilsan® HT / Rilsamid® / Orgalloy®

SPECIALTY POLYAMIDES

Automotive applications

ARKEMA
INNOVATIVE CHEMISTRY

RILSAN® BY ARKEMA

RILSAN® HT BY ARKEMA

RILSAMID® BY ARKEMA

ORGALLOY® BY ARKEMA

A LEADER IN AUTOMOTIVE FLUID TRANSPORTATION

As a leading solution provider to the automotive tubing market, Arkema's Specialty Polyamides group is constantly advancing in thermoplastic tubing for fluid transportation in under-the-hood and fuel system applications.

PUSHING THE LIMITS IN FUEL LINE SOLUTIONS

Arkema is continually developing new specialty polyamide solutions for monolayer and multilayer tubing used in fuel line applications. Our solutions feature an outstanding balance between performance, cost and secure supply, always anticipating the new trends and constraints of the automotive market.

Multi-layer Fuel Lines

Latest innovation

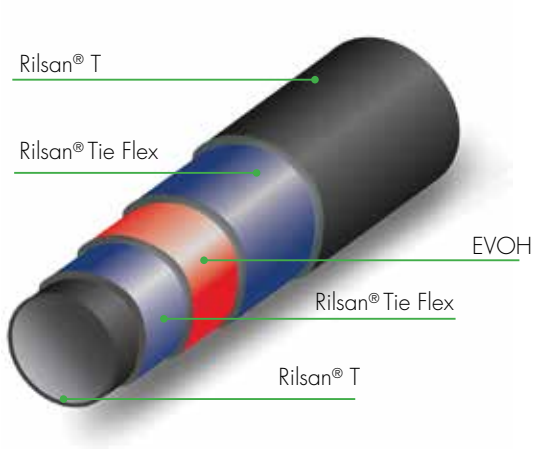
A new gasoline fuel line construction has been developed to meet both local regulations and OEMs' expectations in North America. This structure is composed of Rilsan® T, a new fully bio-based PA10.10 grade, and a new generation of tie layer grades called Rilsan® Tie Flex.

RILPERM® BY ARKEMA

New Rilperm benefits

- **Near-zero oligomer release**
- **Even higher service temperature**
- **Flexibility**
- **Low permeation (LEV III)**
- **Cost competitive**

New Rilperm construction



Selective Catalyst Reduction (SCR) Lines

In the SCR field, Arkema's Specialty Polyamides group fully supports truck and car manufacturers as well as Tier 1 automotive suppliers with dedicated and highly technical solutions in addition to exceptional technical service.

EPA 10 & EURO VI regulations

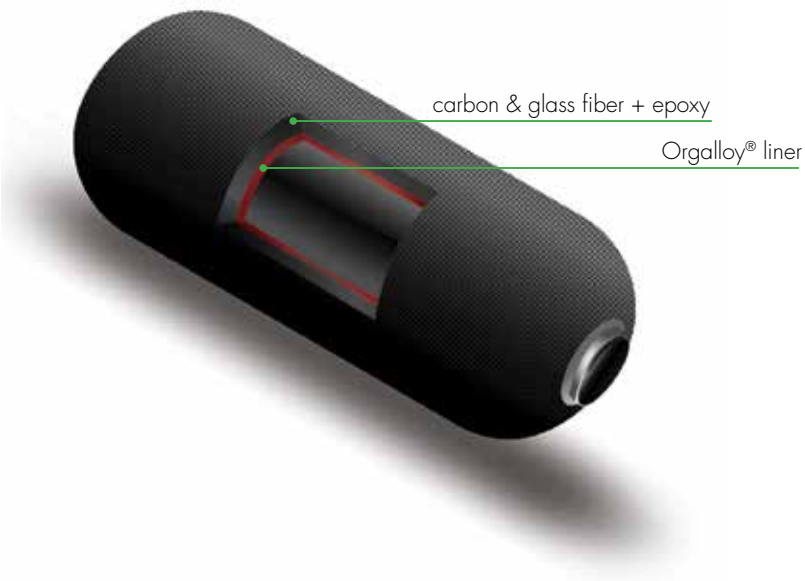
The implementation of EPA 10 and EURO VI regulations has a major effect on all new, small diesel engines for cars. Trucks or cars with bigger engines are already subject to these regulations and are in line with drastic NOx emission requirements. Since the beginning of 2014 they have all been required to meet these new regulations, and many are adopting a Selective Catalyst Reduction (SCR) system.

Wide-range benefits

With their hydrolysis and chemical resistance, Rilsan®, Rilsamid® and innovative new high temperature Rilsan® HT polyamides help cover the full spectrum of service temperatures required by the automotive industry.

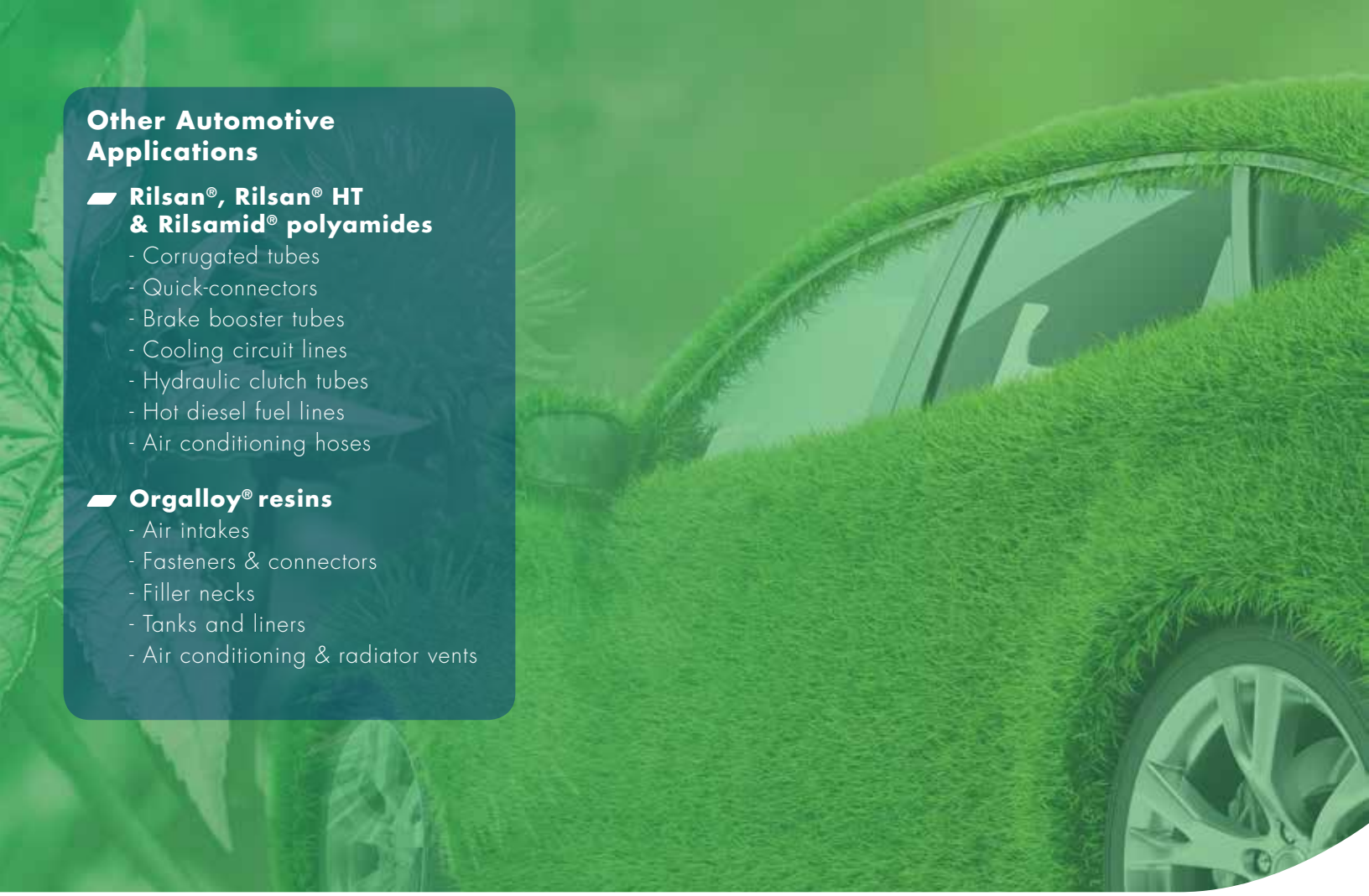
CNG Tanks and Hoses

CNG tanks and hoses are required to sustain higher service temperatures, while maintaining high gas barrier performance. Recent advances in specialty polyamides can achieve these performances while remaining cost competitive solutions in CNG hoses and pressure vessels.



Orgalloy® resin advantages

- **Outstanding barrier to natural gas**
- **High service temperature**
- **Lower density than PA6**
- **Excellent cold impact resistance**
- **High flexibility**
- **Cost competitive**



Other Automotive Applications

Rilsan®, Rilsan® HT & Rilsamid® polyamides

- Corrugated tubes
- Quick-connectors
- Brake booster tubes
- Cooling circuit lines
- Hydraulic clutch tubes
- Hot diesel fuel lines
- Air conditioning hoses

Orgalloy® resins

- Air intakes
- Fasteners & connectors
- Filler necks
- Tanks and liners
- Air conditioning & radiator vents

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