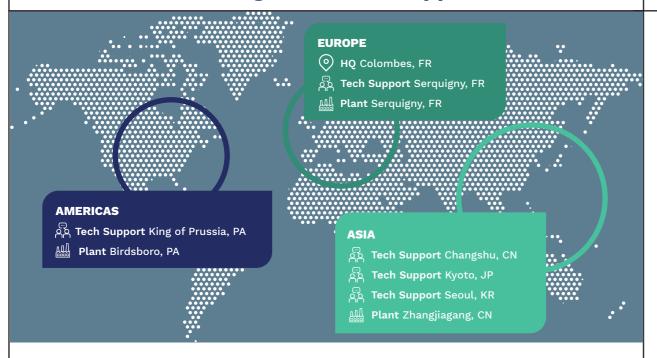
Global Manufacturing, Technical Support, and R&D





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ARKEMA

RILSAN® RILSAMID® RILPERM®

High Performance Solutions for Tomorrow's Mobility



POWERTRAIN & CHASSIS

Weight & cost savings through metal/rubber substitution

LOW DENSITY HIGH PURITY THERMO-CHEMICAL RESISTANCE **WEAR RESISTANCE FLEXIBILITY NOISE REDUCTION**

LOW PERMEABILITY

Injection





Powder Process

Rilsan® PA11 & Rilsamid® PA12 injection grades for connection parts, including quick fittings:

- Extreme thermo-chemical resistance
- Large range of flexibilty and rigidity
- Ease of processing
- Laser weldable

Rilsamid® PA12. Rilsan® PA 11 & Rilsan® HT PPA for SCR (Adblue®) lines & filler necks:

- From good to highest hydrolysis resistance
- Ease of processing (down to smallest diameters, heated lines)

Rilsan® PA 11 & Rilsan® HT PPA for high temperature fuel & blow-by lines:

- Resistant to all chemicals
- Up to 160°C continuous
- 60% lighter than aluminum & rubber

Rilsamid® PA12, Rilsan® PA11 & Rilsan® HT PPA for high temperature engine cooling lines:

- From good to highest hydrolysis resistance
- Ease of processing, less fixation points
- -50% weight & cost reduction

Rlisamid® PA12, Rilsan® PA11 monowall & Rilperm® multilayer constructions for liquid fuel & vapor lines & filler necks

- Compatible with every fuel/temperature combination
- Low fluid contamination (oligomers, extractibles)
- Ease of processing
- Conductive solutions available

Orgalloy® PA alloys for barrier layers of A/C rubber hoses

- Compatible with all refrigerants (R134a, R1234yf...)
- Extremely low permeation
- High adhesion & durability (VW performance)

Rilsan® PA11 fine powders coating for demanding chassis parts (steering columns, shafts)

- Extreme wear & chemical resistance
- Noise reduction
- Ease of processing

Easy Cleaning

Surface Aspect



Personnalisation

INTERIOR Durability, new functions & wellness

LOW DENSITY CHEMICAL RESISTANCE

FLEXIBILITY

LOW VOC SURFACE FUNCTIONALITY HAPTIC & SOFT TOUCH

UV RESISTANCE

Kynar® PVDF protected artificial leathers:

- Anti-Soiling / Easy Cleaning
- Fluorosurfactant free
- Water dispersion technology / low VOCs

Pebax® permanent antistatic solutions:

- Additives for decorative parts
- Prevents dust accumulation
- Available for transparent **PMMA**

Rilsan® PA 11 fine powders coating for small seat moving parts:

- · Extreme wear resistance
- Noise reduction
- Ease of processing (Minicoat® solutions)

Rilsan® PA 11 & Rilsan® Clear & Pebax® TPE for sticks & key fobs:

- Fatigue & chemical resistance
- Simple & cost effective sealing
- 100% bio-based (Rilsan® PA 11)

Platamid® copolyamides for high durable roof panels:

- High adhesion
- Ease of processing

Rilsan® PA 11 3D printed & unique parts:

- Limited series
- Customer adapted
- PP or ABS match (for small series & aftersales)

NEW ENERGY VEHICLES

Competitiveness & Safety for Fluid management & Power connection

LOW DENSITY THERMO-CHEMICAL RESISTANCE **FLEXIBILITY FLAME RETARDENCY**

HIGH PURITY DIMENSIONAL STABILITY WEAR RESISTANCE NOISE REDUCTION





Liquid Process



Powder Process

Rilsamid® PA12, Rilsan® PA 11 & Rilsan® HT PPA for external battery/inverter cooling:

- 2 to 3 kg weight reduction
- Robust solution at any temperature
- High safety: road salt resistance (ZnCl₂)

Rilsan® PA 11 & Rilsan® fine powders for battery high power line (busbar) protection:

- High thermal durability
- High flexibility
- Flame retardant possible

Kynar® PVDF for battery cathode binder & separator:

- Extreme durability
- High adhesion performance

Rilsan® PA11 for rotomolded & blow-molded type 4 H₃

- Extreme mechanical resistance even at extremely low temperatures
- Ease of processing