

ARKEMA

RILSAN<sup>®</sup> RILSAMID<sup>®</sup>  
RILPERM<sup>®</sup>

High Performance  
Solutions for Tomorrow's  
Mobility



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ARKEMA

**POWERTRAIN & CHASSIS**  
Weight & cost savings through metal/rubber substitution

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

- Injection
- Extrusion
- Powder Process

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

- Extreme thermo-chemical resistance
- Large range of flexibility 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

Rilsamid® 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
- Percieved Quality
- Personnalisation

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

- INTERIOR
- Durability, new functions & wellness
- LOW DENSITY
- CHEMICAL RESISTANCE
- FLEXIBILITY
- UV RESISTANCE
- LOW VOC
- SURFACE FUNCTIONALITY
- HAPTIC & SOFT TOUCH

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

- Extrusion
- 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 (ZnCl<sub>2</sub>)

Kynar® PVDF for battery cathode binder & separator:

- Extreme durability
- High adhesion performance

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

- High thermal durability
- High flexibility
- Flame retardant possible

Rilsan® PA11 for rotomolded & blow-molded type 4 H<sub>2</sub> tank liner:

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

