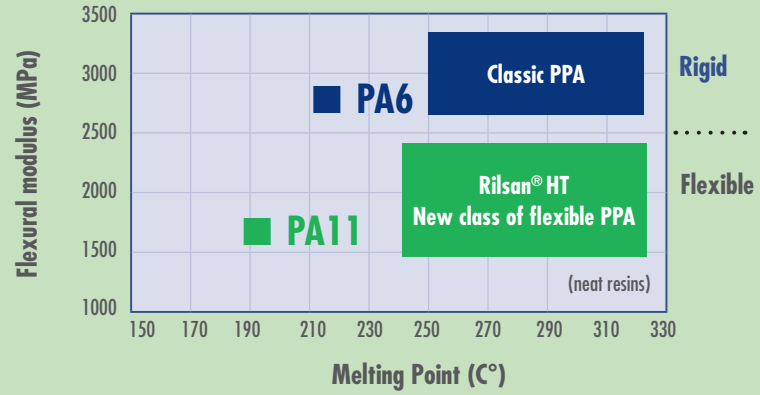
RILSAN® HT BY ARKEMA

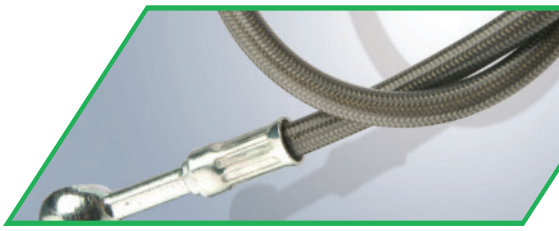
The first flexible PPA

Rilsan® HT materials open up countless metal replacement possibilities for flexible tubing applications, under the hood components and other demanding industrial uses.



There is a clear advantage to high temperature performance with added flexibility in Rilsan® HT resins.

**Formulated resins can reach a flexural modulus of 500MPa.*

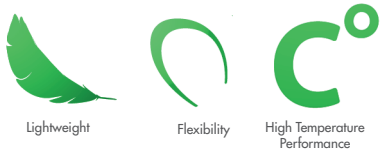


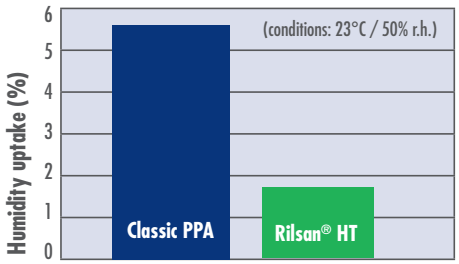
EASY PROCESSING

Unlike common PPA-based materials, Rilsan® HT resins are simple to process. They can be manufactured using standard processing equipment, making it cost-efficient and allowing for high design flexibility. Easy thermoforming and fitting insertion prove Rilsan® HT resins to be an excellent metal-replacement polymer.

ADDITIONAL BENEFITS

- High temperature resistance
- Flexibility
- Low moisture uptake
- Low density
- Long-term heat resistance
- Chemical resistance
- Spin-weldable
- Biobased (base resin, >65%)





Rilsan® HT resins offers more than 50% less humidity uptake compared to classic PPA.

AUTOMOTIVE & TRANSPORTATION APPLICATIONS

Rilsan® HT resins are outstanding solutions to metal replacement especially in the automotive industry that is pushing for lighter and more durable vehicles.

Air management

- Air intake
- Blow-by
- Brake booster
- Air brake

Aqueous media management

- Cooling hoses
- SCR tubing

Oil management

- Transmission oil cooling line
- Hydraulic fluid brake systems

Rilsan® HT range

	Melt point (°C)	Strain at break % ISO 527	Flexual modulus MPa, ISO 178	Comment
CESV BLACK P223 TL	255	> 130	413	High flexibility
CESV BLACK P010 TL	255	> 130	890	Balance of flexibility and burst resistance
CESV BLACK P010-HP TL	255	> 100	1500	High burst resistance
CESV BLACK P123 TL	270	> 130	820	High resistance to hydrolysis
	Melt point (°C)	**Charpy Impact @ -30°C kJ/m², ISO 179**	**Flexual modulus MPa, ISO 178**	**Comment**
CZM 30 BLACK TLD	255	65	7300	Glass reinforced
CSR 13	250	32	7600	Static charge dissipation

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See MSDS for Health & Safety Considerations.

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