



Ryton® (PPS)

nexeo®
plastics



EXCELLENT DIMENSIONAL STABILITY AND HIGH-HEAT TOLERANCE

Ryton® PPS (polyphenylene sulfide) is a family of semi-crystalline polymers with excellent dimensional stability and a high-heat tolerance. This inherently flame retardant high-performance polymer exhibits outstanding chemical resistance compared to benchmark PEEK and fluoropolymers. With a unique combination of properties and an optimal cost/performance balance, Ryton® PPS delivers a remarkable set of performance and processing benefits for various applications.

RYTON® PPS IS A HIGHLY EFFICIENT MATERIAL OF CHOICE THAT OFFERS TREMENDOUS CHEMICAL RESISTANCE, THERMAL PERFORMANCE, CREEP RESISTANCE AND DESIGN FLEXIBILITY.

CHARACTERISTICS

Ryton® PPS (polyphenylene sulfide) compounds offer a unique combination of properties and a cost/performance balance unmatched by other engineering thermoplastics. Characteristics and properties found across Ryton® product lines include:

- Optimal combination of both long-term and short-term thermal stability
- Extremely high modulus and creep resistance
- Excellent chemical resistance to a wide variety of environments
- Precision moldability to tight tolerances
- Inherent non-flammability without flame retardant additives
- Stable dielectric and insulating properties in a range of conditions

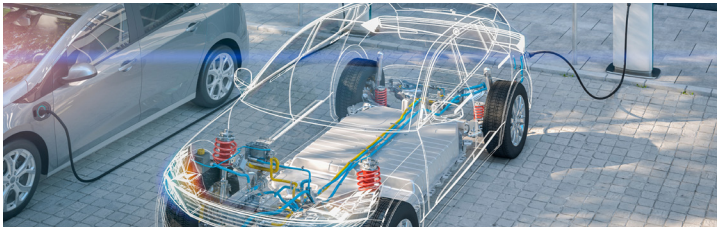
Appliances

Ryton® PPS high-performance polymers are optimal for various appliance applications, thanks to their combination of processability and performance. Ryton® PPS helps appliance OEMs meet challenging market trends, while generating cost-saving opportunities when compared to conventional metals, thermosets or other engineering materials.

Applications include:

- Motors And Controls
- Pumps
- Fans And Blowers
- Electrical/Electronic Components





Automotive and Mobility

Ryton® PPS is the material of choice for a variety of automotive applications and components, due to its ability to withstand high temperatures, automotive fluids and significant mechanical stress. This high-performance polymer serves as an ideal alternative to metals, as it is lighter weight, resistant to corrosive salts and fluids and offers optimal design capabilities.

Applications include:

- Water pumps
- ABS Brake Systems components
- Electrical/Electronic Devices



Electrical and Electronics

Ryton® PPS provides exceptional value for electrical and electronic applications, as it exhibits excellent flow and low shrinkage for precision molding, superior stiffness and mechanical integrity for assembly and good stability for SMT soldering methods.

Applications include:

- Connectors
- Sockets
- Relays And Switches
- Bobbins And Coils
- Electronic Packaging
- Encapsulated Devices



Green Hydrogen

Ryton® PPS finds utility in a wide range of green hydrogen applications and components, due to its renowned thermal, mechanical, dimensional, and chemical stability. With exceptional lightweighting benefits and unique mechanical integrity, Ryton® PPS delivers ideal design flexibility for breakthrough innovations in the green hydrogen economy.

Applications include:

- Fuel Cell System Components
- Valves And Hydrogen Loop Tubes
- Electrolyzer Cell Frames
- End Plates For Pem Fuel Cell Systems
- Balance Of Plant Air Systems
- Thermal Management Systems



Industrial

Ryton® PPS offers industrial OEMs a winning combination of properties, especially for injection molded applications and components. With outstanding thermal stability, broad chemical resistance and long-term strength, Ryton® PPS is well-suited to excel in various hostile environments and conditions.

Applications include:

- Molded Industrial Parts
- Coatings And Fibers
- Oil Field Equipment
- Pumps And Valves

Learn more at nexeoplastics.com/solvay/ryton-pps or contact us to request a free sample.

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2023-001