



AYPOLS
The Trusted Chemistry

Automotive Application Resins

Resins & Gelcoats for Automotive & Transportation Applications



AYPOLS brings the **Trusted Chemistry**, the **Trusted Products**, the **Trusted Performance**, **Trusted Services** and a **Trusted Partner** through its Innovation, Quality Assurance, Research & Developments to absolute Customer Service with practical Technical Support.

 www.aypolspolymers.com

AYPOLS
Unsaturated Polyester Resins

VESPOL
Vinyl Ester Resins

NEXGEL
Premium Gelcoats

NEXCOAT
Premium Coating Resins

NEXTINT
Premium Pigments

Automotive & Transportation Application Resins:

- Aypols Resins play a crucial role in the automotive and railway industries, offering a wide range of applications due to their versatility, durability, and performance characteristics can meet flame retardant, smoke suppression and other FR standards for the performance requirements for a variety of end-use applications and fabrication methods including hand lay-up, spray-up, filament winding and Pultrusion in Construction, Transportation, Industrial/ Corrosion, Railways, Defense, Marine, Consumer Equipment Segments.
- These Resins offer good mechanical properties, ease of molding, and cost-effectiveness in applications: Used in body panels, interior components, and various fiberglass-reinforced parts.



AYPOLS Automotive & Transportation Product Line:

AYPOLS RESIN	PRODUCT	SPECIAL FEATURES
AYPOLS OT 5037 TA S	Pre-accleretaed thixed Ortho Resin for Spray Up	Structural applications for Automotive & Transportation
AYPOLS OT 5037 PA H	Pre-accleretaed Ortho Resin for Hand Lay Up	Structural applications for Automotive & Transportation
AYPOLS OT 8101 PA	Orthophthalic based Halogen Free, PA FR Resin	Flammability Test UL 94-V0, UIC 564-2 Appendix: 15-Deterioration Visibility- smoke: Class A, IEC 15061-2002 Pass
AYPOLS OT 8201 PA	Isophthalic based Halogen Free, PA FR Resin	UIC 564-2 Appendix: 1 5- Deterioration Visibility, due to smoke: Class A, ASTM E84 Class A flame and smoke requirements
AYPOLS TP 8103 PA	Terephthalic based Halogen Free, PA FR Resin	EN 45545 HL2, HL3 under approval.
AYPOLS IS FR 8202 HL PA	Isophthalic based Halogenated Pre accelerated FR Resin	ASTM E84 Class 1 flame requirements
AYPOLS IS FR 8202 BR PA	Isophthalic based Brominated Pre accelerated FR Resin	ASTM E84 Class 1 flame spread
AYPOLS OT 1501 RTM PA	Orthophthalic Resin for RTM process in PA Version	Automotive & Transportation Applications
AYPOLS IS 2104 RTM PA	Isophthalic Resin for RTM process in PA Version	Automotive & Transportation Applications
NEXGEL OT 2006 PA S/H	Orthophthalic Gelcoat for Spray Up and HLU	Automotive & Transportation Applications
NEXGEL OT FR 8110 PA H	Orthophthalic FR Gelcoat for Spray Up and HLU	Automotive & Transportation Applications

For Fire Retardant Resin & Gelcoats Series, Please refer a separate Brochure, Catalogue, Technical Data Sheet or contact us.



Key Benefits with Aypols Resins & Gelcoats:

- **Enhanced Fire Safety: Flame Resistance:** FR UPR is designed to be resistant to ignition and flame spread, improving passenger safety by reducing the risk of fire-related accidents. **Low Smoke Emission:** These resins often produce less smoke and fewer toxic gases when subjected to fire, enhancing visibility and reducing the danger of inhalation for passengers during evacuation.
- **Mechanical and Physical Properties: High Strength-to-Weight Ratio:** FR UPR provides a good balance of strength and weight, which is critical for vehicle performance and fuel efficiency in automotive and railway applications. **Durability:** These resins offer excellent mechanical properties, including impact resistance, making them suitable for components that experience high stress and wear.
- **Design Flexibility: Versatility:** FR UPR can be molded into complex shapes, allowing for innovative design solutions and integration of multiple functions into single components. **Surface Finish:** Gelcoats provide excellent surface finish and aesthetic properties, which is important for visible interior and exterior parts.
- **Cost-Effectiveness: Material Cost:** Unsaturated polyester resins are generally cost-effective compared to other high-performance polymers, offering a balance between performance and cost. **Processing:** The processing techniques for FR UPR, such as hand lay-up, spray-up, and resin transfer molding, are well-established and cost-effective.
- **Application Examples in Automotive and Railways:** **Automotive:** Interior panels, engine covers, battery enclosures, and under-the-hood components. **Railways:** Seat frames, interior panels, flooring systems, and exterior cladding.
- **Manufactured using Statistical Process and Quality Controls** at our own ISO 9001-2015 certified manufacturing facility
- **Consistent Performance batch to batch consistency** with robust quality controls at our laboratory
- **No compromise on Raw Material Quality, Reputed Sourcing of RM** after technical validation
- **Many products are able to meet other requirements** in addition to the formal testing listed above. Aypols chemists can customize a formula to meet specific needs and test requirements not listed. Please contact us.

★ The Trusted Chemistry ★ The Trusted Products ★ The Trusted Performance ★ The Trusted Services ★ The Trusted Partner

For more information, related to the above product line, please call/ Email/ Send Enquiry-

Aypols Polymers Private Limited

211/212, Ravindranath Layout, Venkatasamy Road, New Sidhapudur, Coimbatore-641044, Tamilnadu, India

+91 422 4387801

info@aypolspolymers.com

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