

EASTMAN

Putting **innovation** in motion
through material innovation



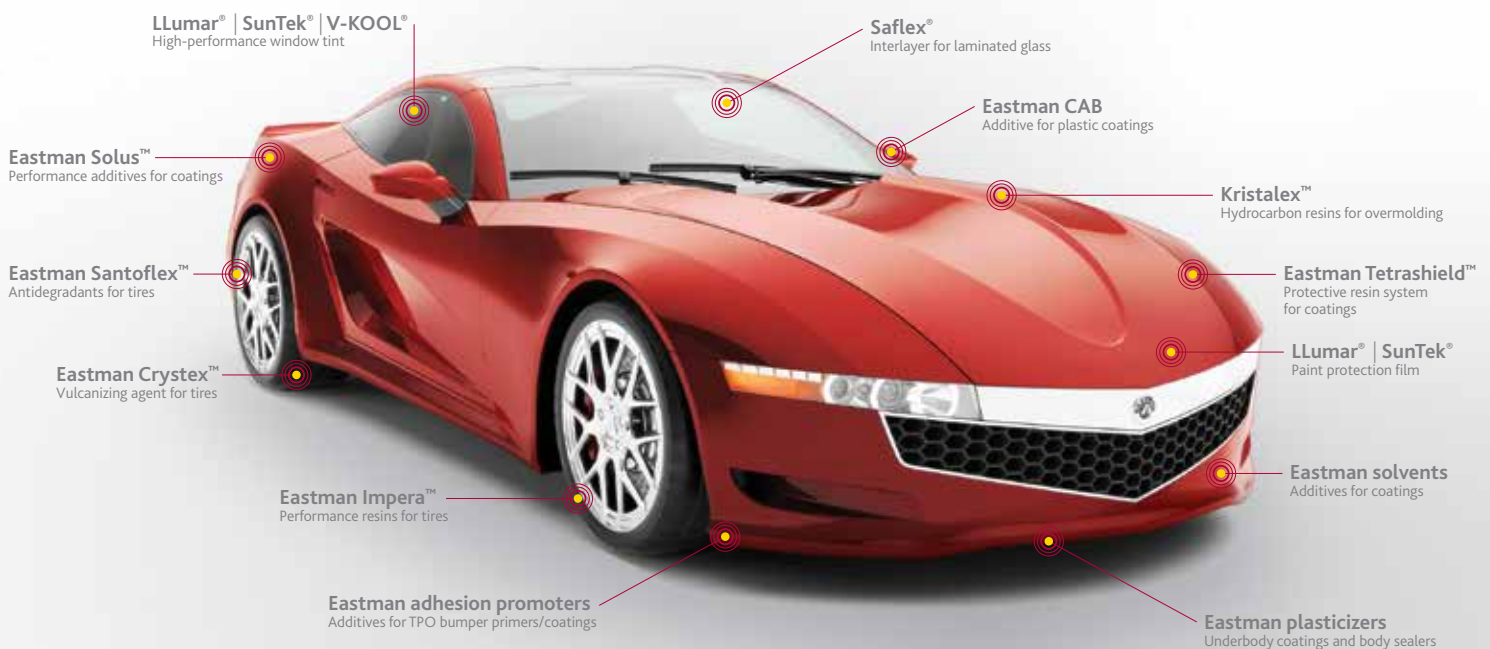
Making a material difference in transportation

Eastman products for the transportation market contribute to improvements in performance, safety, and appearance. Our extensive portfolio includes additives for tires, protective interlayers and films for windshields, and plasticizers and adhesion promoters for vehicle exteriors. Eastman products touch different modes of transportation, from automotive and commercial trucking to marine and aviation. At the crossroads where the needs of manufacturers and the demands of consumers intersect, Eastman is uniquely positioned as a materials leader, providing products that enhance processing and compliance for manufacturers and visual aesthetics, comfort, and safety for consumers.

About Eastman

Eastman is a global specialty chemical company that produces a broad range of products that are found in items people use every day. As a world leader in the diverse markets it serves, Eastman is focused on delivering innovative and technology-based solutions while maintaining its commitment to safety and sustainability.

Learn more at www.eastman.com/transportation.



Laminated glass interlayers

Saflex® PVB interlayers

For more than 80 years, glass fabricators and automotive engineers have counted on Saflex for high quality products, reliable service, and expert advice to help deliver world-class technology for laminated glass. Automotive engineers are also taking advantage of the variety of benefits these products offer, including heat, weight, and sound reduction as well as safety, security, UV protection, and head-up display (HUD) technology.

Window tint and paint protection film

LLumar®, SunTek®, and V-KOOL® high-performance window tint and paint protection film

Eastman is the world's largest manufacturer of window tints, with brands for the automotive industry including LLumar, SunTek, and V-KOOL. With technologies ranging from deep-dyed polyesters to nanoceramic and multilayered sputtering, window tints from Eastman reduce interior temperatures and protect passengers and auto interiors from damaging ultraviolet rays. Eastman's paint protection film shields vehicles from the damages of everyday driving. It's the ultimate defense against road rash: rocks and pebbles, road debris, road salt, and sand.

Overmolding and soft touch— Pure monomer resins

Kristalex™, Endex™, Piccotex™, and Plastolyn™ hydrocarbon resins

With its pure monomer resins (Kristalex, Endex, Piccotex, and Plastolyn), Eastman provides a broad range of solutions for the automotive market. PMRs are mainly used in interior components for soft touch and synthetic rubber applications. With the advantage of being able to choose from a very broad range of polymers, you will be able to find the solution which best complements your product to achieve desired benefits such as better adhesion, flow properties, and lower cycle times. Eastman pure monomer resins are also water-white in color and extremely stable against thermal and oxidative degradation.

Coatings—Resins

Eastman Solus™ performance additives, Eastman CAB flexible resins, and Eastman Tetrashield™ protective resin systems

For more than 45 years, Eastman CABs have been the industry standard for cellulose. They provide improved flow, faster dry-to-touch times, and reduced sag in solventborne systems. Eastman Solus™ performance additives and CABs offer excellent metallic-flake control, color consistency, and even color dispersions for defect-free finishes that last. Films produced from Eastman CABs are optically clear, very tough, hard, and possess a high degree of ultraviolet stability. Eastman Tetrashield™ protective resin systems create coatings that protect. Tetrashield resins extend the life and durability of automotive coatings by increasing weatherability, mar, and chemical resistance.

Coatings—Solvents

Eastman specialty ketones, esters, glycol ethers, glycol ether esters, and alcohols

Eastman produces high-performing oxygenated solvents for the automotive market, including OEM and refinish coatings. By providing diverse options, Eastman can assist formulators in matching solvent performance characteristics with formulation components and desired regulatory targets. The comprehensive product line of Eastman solvents includes non-HAP and low-VOC options that enable formulators to develop high quality products that meet and exceed customers' expectations.

Coatings, sealers, and interiors—Plasticizers

Benzoflex™, Eastman 168™, Eastman Effusion™, and Eastman VersaMax™ plasticizers

From promoting paintability to imparting excellent low-temperature flexibility, Eastman plasticizers provide the optimal balance of performance and value for the automotive market. Eastman's versatile portfolio represents the broadest range of non-phthalate plasticizers in the industry. Eastman is North America's largest producer of non-phthalate, general-purpose, and specialty plasticizers—including fast fusers and viscosity reducers.

Coatings—Adhesion promoters

Eastman Advantis™ adhesion promoters, Butvar® resin, and CP-730-1 polyolefins

Automakers are increasingly using plastics in vehicle interior and exterior applications. Formulating coatings that adhere well to plastics can be a challenge. Eastman supplies adhesion promoters that can be used in primers or as stir-in additives in coatings for TPO and other polyolefin plastics. Eastman's wide range of both waterborne and solventborne adhesion promoters offers a variety of solutions to the challenge of coatings adhesion to plastic. Eastman also produces PVB specialty resins which can be used as wash primers to provide metal surface binding for the auto refinish market.

Tire additives

Eastman Impera™ performance resins, Eastman Crystex™ insoluble sulfur, and Eastman Santoflex™ antidegradants

Eastman tire additives enable tire compounders to enhance the strength and durability of tires while also optimizing the wet grip and rolling resistance conflict. Crystex vulcanizing agents for rubber prevent sulfur migration and bloom which can interfere with the tire building process. Santoflex antidegradants prevent premature aging caused by exposure to ozone and oxygen—extending tire flexibility and service life. As regulatory and safety standards increase, Impera performance resins can help deliver the desired balance of performance and safety without compromising the integrity of the tire manufacturing processes.



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