

Eastman™ pure monomer resins

Our vision: To continue to be the global leader in production and sales of pure monomer resins and differentiated solutions for the formulated products industries.

What are PMRs?

Pure monomer resins are water-white, highly color-stable resins produced by the polymerization of pure aromatic hydrocarbon monomers (such as styrene and alpha-methyl styrene [AMS]).

Why use PMRs?

PMRs are compatible with a broad range of polymers including styrene-butadiene rubber (SBR), styrenic block copolymers (SBC), acrylics, ethylene-vinyl acetate (EVA), and polychloroprene. As a result, they are used in a wide variety of formulations — from adhesives and sealants to waxes, from coatings to plastic and rubber compounds. In adhesives, for example, PMRs may be used to modify the styrene end block of SBCs, allowing for the balance of cohesion, viscosity, and temperature resistance. In plastic compounds, PMRs may be used to control processability and/or improve mechanical and elastic properties. Detailed information on PMRs and their many uses is available on www.eastman.com.

Why Eastman™ PMRs?

- **Product portfolio** — Eastman offers the broadest range of PMRs. Specific product families include Kristalex™, Plastolyn™, Endex™, Piccotex™, and Piccolastic™ hydrocarbon resins.
- **Innovation** — Eastman is a recognized expert in “resin-polymer interaction” and has a long history of innovation for the formulated products industries. Today, we are continuing to explore new ways PMRs can help make polymers work in adhesives and sealants, coatings, and thermoplastic elastomer compounds.
- **Security of supply** — Eastman remains the only producer of PMRs with multiple manufacturing facilities. We manufacture PMRs at our integrated plant sites in Jefferson, Pennsylvania, and in Middelburg, The Netherlands. This provides us flexibility to respond to changes in the market place and helps us deliver PMRs on-time, and in-full to customers throughout the globe. Furthermore, PMRs rely upon generally available feedstocks such as styrene and AMS. While no feedstock is safe from unexpected supply problems, PMR feedstocks are less affected by the trend towards “lighter cracking” that is constraining some polymers and other hydrocarbon resin feedstocks. Eastman purchases styrene and AMS from multiple suppliers on contract and spot basis in order to ensure supply of the raw materials we need to help you grow your business.
- **Commitment to growth** — Eastman is committed to growth. With respect to PMRs, we have completed the design of an expansion of manufacturing capacity at our Jefferson Plant. When justified, additional capacity can be brought on within 2 years. We can also make capacity available at our facility in The Netherlands.
- **Sustainability** — PMR’s, though not derived from renewable feedstocks, are helping drive our customers’ sustainability goals by helping reduce energy consumption and waste. Additionally, Eastman is actively engaged in sustainability as a recognized leader. In fact, we are one of only two basic materials companies recently ranked in the “Top 100 Greenest Companies in America” by *Newsweek* (2009, September). We are constantly working to improve the sustainability of our operations. From 1998 to 2008, we have reduced GHG intensity by 25%, reduced our energy intensity by 35%, and reduced VOC emissions by 34%. We are using tools such as life cycle analysis to better understand the sustainability of PMR’s. We are evaluating ways to reduce their footprint and/or ways that PMRs can enable you to meet your sustainability goals.



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Material Safety Data Sheets providing safety precautions, that should be observed when handling and storing Eastman products, are available online or by request.

You should obtain and review the available material safety information before handling any of these products.

If any materials mentioned are not Eastman products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed.

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