

Polyisoprene Elastomers

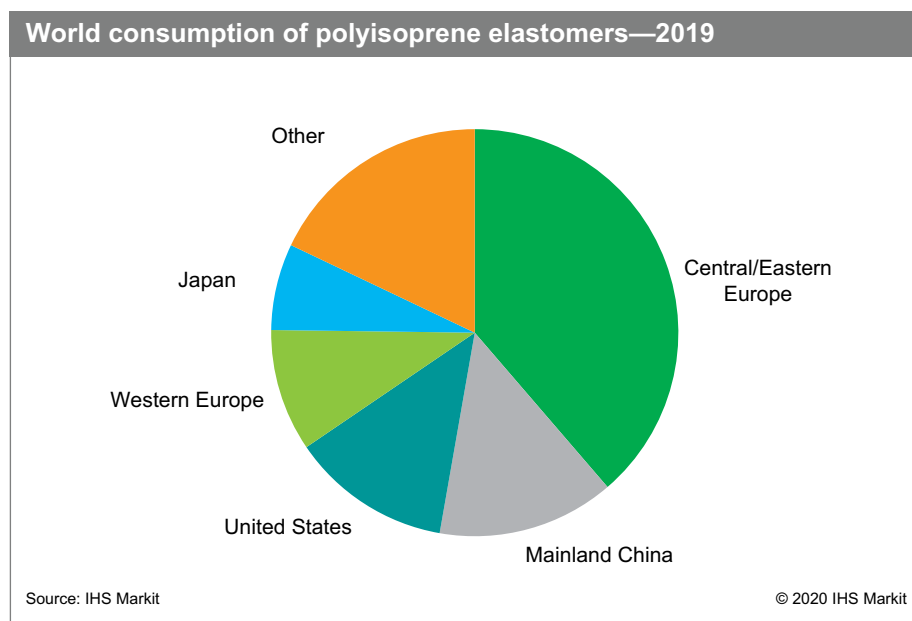
29 May 2020

Abstract

Polyisoprene elastomers (IR, isoprene rubber, polyisoprene rubber) are synthetic, predominantly stereoregular polymers that closely resemble natural rubber in molecular structure as well as in properties.

Polyisoprene elastomers are used in a variety of end-use applications requiring good resilience, low water swell, high gum tensile strength, good tack, and high hot tensile strength. The largest end use for polyisoprene by far is in tires. Black-loaded polyisoprene finds uses in tires, motor mounts, pipe gaskets, shock absorber bushings, and many other molded and mechanical goods. Gum polyisoprene compounds are used in rubber bands, cut thread, baby bottle nipples, and extruded hoses, along with other such items. Polyisoprene that is mineral-filled finds applications in footwear, sponges, and sporting goods. Other important uses include medical/health applications and sealants and adhesives. Of all the applications, medical/health applications have witnessed the fastest growth.

The following pie chart shows world consumption of polyisoprene elastomers:



Tires and tire products continue to dominate world consumption for polyisoprene elastomers at nearly three-fourths of total world consumption. Mechanical rubber goods assumed the second position, followed by medical applications, footwear, and other uses. Medical/health applications will continue to have the fastest consumption growth during the forecast period.

For more detailed information, see the table of contents, shown below.

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IHS Markit's Chemical Economics Handbook – Polyisoprene Elastomers is the comprehensive and trusted guide for anyone seeking information on this industry. This latest report details global and regional information, including



Global summary;
regional coverage



Producers with
annual capacities
and plant sites



Production figures
and trends



Consumption and
forecasts by end use
application



Manufacturing
processes and
environmental issues



Trade – imports
and exports

IHS Markit's Chemical Economics Handbook – Polyisoprene Elastomers has been compiled using primary interviews with key suppliers, organizations and leading representatives from the industry in combination with IHS Markit's unparalleled access to upstream and downstream market intelligence, expert insights into industry dynamics, trade and economics.

This report can help you:

- Identify trends and driving forces influencing chemical markets
- Forecast and plan for future demand
- Understand the impact of competing materials
- Identify and evaluate potential customers and competitors
- Evaluate producers
- Track changing prices and trade movements
- Analyze the impact of feedstocks, regulations, and other factors on chemical profitability

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