

Global Infrared Transmitting Acrylic Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Infrared Transmitting Acrylic market size is expected to reach \$ 339 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Infrared Transmitting Acrylic is a specialized form of polymethyl methacrylate engineered to allow high transmission of infrared (IR) wavelengths—typically in the near-infrared (NIR, ~700–2500 nm) and sometimes mid-infrared ranges—while maintaining the mechanical strength, optical clarity, and weather resistance of conventional acrylic plastics. It is commonly used in optical sensors, night-vision systems, LiDAR covers, IR remote control windows, security cameras, medical devices, and industrial sensing equipment. The supply chain begins upstream with petrochemical feedstocks such as acetone, hydrogen cyanide, and methanol, which are used to produce methyl methacrylate (MMA) monomer through processes like ACH or C4 oxidation routes. MMA is then polymerized by specialty plastics manufacturers into PMMA resins, which are further modified with optical additives or purification processes to optimize IR transmission and reduce absorption in targeted wavelengths. Midstream processors convert the resin into IR-transmitting acrylic sheets, lenses, films, domes, or molded components via extrusion, casting, or injection molding. Downstream, these materials are integrated by optical component manufacturers and electronics OEMs into devices such as consumer electronics, automotive sensors, surveillance cameras, medical imaging equipment, industrial automation systems, and aerospace optical assemblies, where transparent protection and efficient infrared signal transmission are required. In 2025, global Infrared Transmitting Acrylic output was about 38,000 tons with 60,000 tons of capacity, average prices of USD 5,000 – 7,200 per ton, and gross margins around 29%.

This report studies the global Infrared Transmitting Acrylic production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Infrared Transmitting Acrylic and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Infrared Transmitting Acrylic that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Infrared Transmitting Acrylic total production and demand, 2021-2032, (Tons)

Global Infrared Transmitting Acrylic total production value, 2021-2032, (USD Million)

Global Infrared Transmitting Acrylic production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Infrared Transmitting Acrylic consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Infrared Transmitting Acrylic domestic production, consumption, key domestic manufacturers and share

Global Infrared Transmitting Acrylic production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Infrared Transmitting Acrylic production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Infrared Transmitting Acrylic production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Infrared Transmitting Acrylic market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mitsui Chemicals (Japan), Zeon Corporation (Japan), Polyplastics (Japan), TOPAS Advanced Polymers (Germany), JSR Corporation (Japan), Chemours (USA), Arkema (France), Daikin Industries (Japan), Solvay (Belgium), AGC Chemicals (Japan), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Infrared Transmitting Acrylic market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Infrared Transmitting Acrylic Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Infrared Transmitting Acrylic Market, Segmentation by Type:

Infrared Transmitting Acrylic Film

Infrared Transmitting Acrylic Sheet

Global Infrared Transmitting Acrylic Market, Segmentation by Infrared Wavelength Range:

Near-Infrared Transmitting Acrylic

Extended NIR Transmitting Acrylic

Broadband IR Transmitting Acrylic

Global Infrared Transmitting Acrylic Market, Segmentation by Application:

Military

Aerospace

Automotive

Industrial

Healthcare

Others

Companies Profiled:

Mitsui Chemicals (Japan)

Zeon Corporation (Japan)

Polyplastics (Japan)

TOPAS Advanced Polymers (Germany)

JSR Corporation (Japan)

Chemours (USA)

Arkema (France)

Daikin Industries (Japan)

Solvay (Belgium)

AGC Chemicals (Japan)

Gujarat Fluorochemicals (India)

LG Chem (South Korea)

Mitsubishi Chemical (Japan)

Sumitomo Chemical (Japan)

Toray Industries (Japan)

Key Questions Answered:

1. How big is the global Infrared Transmitting Acrylic market?
2. What is the demand of the global Infrared Transmitting Acrylic market?
3. What is the year over year growth of the global Infrared Transmitting Acrylic market?
4. What is the production and production value of the global Infrared Transmitting Acrylic market?
5. Who are the key producers in the global Infrared Transmitting Acrylic market?
6. What are the growth factors driving the market demand?

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