

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

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Abstracts

The global Infrared Transmitting Plastic market size is expected to reach \$ 1217 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

Infrared Transmitting Plastic refers to a class of polymer materials engineered to transmit infrared (IR) radiation—typically in the near-infrared (NIR, ~0.75–2.5 μm) or mid-infrared (MWIR/LWIR, ~3–14 μm) spectral ranges—while maintaining the lightweight, moldability, and cost advantages of plastics. These materials are used as optical windows, lenses, domes, and protective covers in thermal imaging systems, sensors, LiDAR, medical devices, security systems, and industrial temperature monitoring. Common IR-transmitting plastics include polyethylene (HDPE/LDPE), polypropylene (PP), polymethylpentene (TPX), cyclic olefin polymers (COP/COC), and specially modified polycarbonates or acrylics designed for high IR transparency. The supply chain begins upstream with petrochemical feedstocks (ethylene, propylene, methyl methacrylate, cyclic olefins) produced by oil and gas or naphtha cracking companies; midstream polymer manufacturers and specialty material companies produce IR-transparent polymer resins and optical-grade pellets; downstream optical component manufacturers mold, extrude, or machine these plastics into lenses, windows, domes, and sensor covers; and finally system integrators and OEMs incorporate them into thermal cameras, automotive driver-monitoring systems, medical diagnostic equipment, smart building sensors, security cameras, aerospace optics, and industrial infrared measurement devices. In 2025, global Infrared Transmitting Plastic output was about 125,000 tons with 180,000 tons of capacity, average prices of USD 4,200 – 6,800 per ton, and gross margins around 26%.

This report studies the global Infrared Transmitting Plastic production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Infrared Transmitting Plastic 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 Plastic that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Infrared Transmitting Plastic 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 Plastic 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 Plastic Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Infrared Transmitting Plastic Market, Segmentation by Type:

Infrared Transmitting Plastic Film

Infrared Transmitting Plastic Sheet

Global Infrared Transmitting Plastic Market, Segmentation by Polymer Material:

Polycarbonate (PC)

Polymethyl Methacrylate (PMMA)

Polyethylene (PE)

Others

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

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