

Global Infrared Transmitting Plastic Market Growth 2026-2032

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Abstracts

The global Infrared Transmitting Plastic market size is predicted to grow from US\$ 678 million in 2025 to US\$ 1189 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 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%.

United States market for Infrared Transmitting Plastic is estimated to increase from US\$

million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Infrared Transmitting Plastic is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Infrared Transmitting Plastic is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Infrared Transmitting Plastic players cover Mitsui Chemicals (Japan), Zeon Corporation (Japan), Polyplastics (Japan), TOPAS Advanced Polymers (Germany), JSR Corporation (Japan), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the 'Infrared Transmitting Plastic Industry Forecast' looks at past sales and reviews total world Infrared Transmitting Plastic sales in 2025, providing a comprehensive analysis by region and market sector of projected Infrared Transmitting Plastic sales for 2026 through 2032. With Infrared Transmitting Plastic sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Infrared Transmitting Plastic industry.

This Insight Report provides a comprehensive analysis of the global Infrared Transmitting Plastic landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Infrared Transmitting Plastic portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Infrared Transmitting Plastic market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Infrared Transmitting Plastic and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Infrared Transmitting Plastic.

This report presents a comprehensive overview, market shares, and growth opportunities of Infrared Transmitting Plastic market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

Infrared Transmitting Plastic Film

Infrared Transmitting Plastic Sheet

Segmentation by Polymer Material:

Polycarbonate (PC)

Polymethyl Methacrylate (PMMA)

Polyethylene (PE)

Others

Segmentation by Application:

Military

Aerospace

Automotive

Industrial

Healthcare

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Infrared Transmitting Plastic market?

What factors are driving Infrared Transmitting Plastic market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Infrared Transmitting Plastic market opportunities vary by end market size?

How does Infrared Transmitting Plastic break out by Type, by Application?

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