

Global Polymer Optical Fiber Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Polymer Optical Fiber market size was valued at US\$ 7069 million in 2024 and is forecast to a readjusted size of USD 11860 million by 2031 with a CAGR of 7.8% during review period.

Plastic optical fiber (POF) or polymer optical fiber is an optical fiber that is made out of polymer. Similar to glass optical fiber, POF transmits light (for illumination or data) through the core of the fiber. Its chief advantage over the glass product, other aspect being equal, is its robustness under bending and stretching.

The Polymer Optical Fiber (POF) Market is experiencing steady growth due to its increasing use in data transmission, lighting, medical devices, and automotive applications. Unlike glass fiber, plastic optical fiber is flexible, cost-effective, and easier to install, which makes it attractive for short-distance applications and in sectors where high performance is not strictly required. Here are the key trends in this market:

Polymer optical fiber is increasingly used in vehicles for in-car networking systems like infotainment, lighting, and sensor data transmission. The shift to electric and autonomous vehicles is also driving demand, as POF offers EMI (electromagnetic interference) immunity and high-speed data transmission.

In industrial automation, POF is used in control systems and factory floor networks where flexibility, reliability, and cost-effectiveness are essential.

POF is widely used in consumer electronics for applications that require high-speed data transfer over short distances, such as high-definition multimedia interfaces (HDMI)

and home network systems.

As homes become more connected and demand for fast, reliable data transfer in smart home systems increases, POF is an ideal solution for short-range data transmission within confined spaces.

Plastic optical fibers are used in medical imaging, sensors, and surgical devices due to their flexibility, safety (non-conductivity), and biocompatibility. They enable minimally invasive procedures and improved diagnostic capabilities.

The healthcare industry's shift towards minimally invasive and precision medical tools is driving demand for POF as a safe and reliable data transmission medium within various medical equipment.

This report is a detailed and comprehensive analysis for global Polymer Optical Fiber market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Polymer Optical Fiber market size and forecasts, in consumption value (\$ Million), sales quantity (K m), and average selling prices (US\$/m), 2020-2031

Global Polymer Optical Fiber market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K m), and average selling prices (US\$/m), 2020-2031

Global Polymer Optical Fiber market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K m), and average selling prices (US\$/m), 2020-2031

Global Polymer Optical Fiber market shares of main players, shipments in revenue (\$ Million), sales quantity (K m), and ASP (US\$/m), 2020-2025

The Primary Objectives in This Report Are:

Global Polymer Optical Fiber Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Polymer Optical Fiber
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Polymer Optical Fiber market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mitsubishi Chemical, Toray Group, AGC, Asahi Kasei, LEONI, Jiangxi Daisheng, Sichuan Huiyuan, Chromis Fiberoptics, Timbercon, Jiangsu TX Plastic Optical Fibers, etc.

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

Market Segmentation

Polymer Optical Fiber market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

PMMA Type

Perfluorinated Type

Market segment by Application

Automotive

Industrial

Home Networks

Consumer Electronics

Inter-connections

Medical

Other

Major players covered

Mitsubishi Chemical

Toray Group

AGC

Asahi Kasei

LEONI

Jiangxi Daisheng

Sichuan Huiyuan

Chromis Fiberoptics

Timbercon

Jiangsu TX Plastic Optical Fibers

FiberFin

Nanoptics

Market segment by region, regional analysis covers

- North America (United States, Canada, and Mexico)
- Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
- Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

- South America (Brazil, Argentina, Colombia, and Rest of South America)
- Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Polymer Optical Fiber product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Polymer Optical Fiber, with price, sales quantity, revenue, and global market share of Polymer Optical Fiber from 2020 to 2025.

Chapter 3, the Polymer Optical Fiber competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Polymer Optical Fiber breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Polymer Optical Fiber market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Polymer Optical Fiber.

Chapter 14 and 15, to describe Polymer Optical Fiber sales channel, distributors, customers, research findings and conclusion.

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