

Global Low-Loss PMMA Plastic Optical Fiber Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Low-Loss PMMA Plastic Optical Fiber market size was valued at US\$ 1721 million in 2025 and is forecast to a readjusted size of US\$ 2804 million by 2032 with a CAGR of 7.3% during review period.

In 2025, global production of low-loss PMMA plastic optical fiber reached 984 million meters, with an estimated average selling price of US\$1.7 per meter. Low-loss PMMA plastic optical fiber refers to polymer optical fiber used for short-distance optical transmission, lighting, and sensing, made with high-transparency polymethyl methacrylate (PMMA) as the core material and fluoropolymer or low-refractive-index polymer as the cladding material, through processes such as extrusion, drawing, cladding, coating, and optical inspection. It features light weight, good flexibility, easy processing, resistance to electromagnetic interference, convenient termination, and low cost. It is mainly used in automotive networking and interior lighting, industrial control, sensing, medical lighting, consumer electronics, short-distance data communication, decorative lighting, starry sky ceilings, automotive ambient lighting, and smart home fields. The upstream mainly includes MMA/PMMA resin, fluoropolymer cladding materials, PE/PVC/LSZH sheathing materials, masterbatches, additives, drawing equipment, extrusion equipment, coating equipment, testing instruments, and connectors; the midstream includes PMMA core material preparation, core-cladding composite, drawing and forming, sheathing, attenuation testing, bending resistance testing, end-face processing, and optical cable assembly; the downstream targets automotive electronics, automotive ambient lighting, industrial automation, medical devices, consumer electronics, sensing systems, architectural lighting, and fiber optic lighting engineering. Gross profit margin ranges from approximately 20% to 45%.

This report is a detailed and comprehensive analysis for global Low-Loss PMMA Plastic 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 Low-Loss PMMA Plastic Optical Fiber market size and forecasts, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global Low-Loss PMMA Plastic Optical Fiber market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global Low-Loss PMMA Plastic Optical Fiber market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global Low-Loss PMMA Plastic Optical Fiber market shares of main players, shipments in revenue (\$ Million), sales quantity (K Meter), and ASP (US\$/Meter), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Low-Loss PMMA Plastic 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 Low-Loss PMMA Plastic 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 Corporation, Toray, AGC, Asahi Kasei, LEONI, Jiangxi Daisheng POF, Sichuan Huiyuan Plastic Optical Fiber, Chromis Fiberoptics, Jiangsu TX Plastic Optical Fibers, FiberFin, etc.

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

Market Segmentation

Low-Loss PMMA Plastic Optical Fiber market is split by Type and by Application. For the period 2021-2032, 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

SI Type

GI Type

Market segment by Morphology

Bare Fiber

Single Core

Multi-Core

Market segment by Diameter

0.25?0.75 mm Microfiber

1.0 mm Standard Fiber

1.5?3.0 mm Fiber

Larger Diameter

Market segment by Application

Automotive

Industrial

Medical

Consumer Electronics

Others

Major players covered

Mitsubishi Chemical Corporation

Toray

AGC

Asahi Kasei

LEONI

Jiangxi Daisheng POF

Sichuan Huiyuan Plastic Optical Fiber

Chromis Fiberoptics

Jiangsu TX Plastic Optical Fibers

FiberFin

Nanoptics

Hubei Senwo Photoelectric Technology

Nanjing Chunhui Science and Technology Industrial

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 Low-Loss PMMA Plastic Optical Fiber product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Low-Loss PMMA Plastic Optical Fiber, with price, sales quantity, revenue, and global market share of Low-Loss PMMA Plastic Optical Fiber from 2021 to 2026.

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

Chapter 4, the Low-Loss PMMA Plastic Optical Fiber breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Low-Loss PMMA Plastic Optical Fiber market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Low-Loss PMMA Plastic Optical Fiber.

Chapter 14 and 15, to describe Low-Loss PMMA Plastic Optical Fiber sales channel, distributors, customers, research findings and conclusion.

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