

# Global Near-Infrared Emissive Polymer 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 Near-Infrared Emissive Polymer market size was valued at US\$ 872 million in 2025 and is forecast to a readjusted size of US\$ 1752 million by 2032 with a CAGR of 10.4% during review period.

Near-Infrared Emissive Polymers (NIR-EPs) are functional conjugated or hybrid polymers engineered to absorb visible or UV light and emit in the near-infrared window (typically 700–1,700 nm), enabling applications where deep penetration, low scattering, and low background noise are required—most notably in bioimaging, wearable health sensors, night-vision displays, optical communications, and anti-counterfeiting inks. These materials combine organic polymer processability (solution coating, printing, fiber spinning) with tunable electronic bandgaps achieved through donor–acceptor backbones, rare-earth chelation, or embedded NIR fluorophores. The supply chain begins upstream with specialty monomers (thiophenes, benzothiadiazoles, diketopyrrolopyrroles), NIR dyes or rare-earth complexes, and high-purity solvents produced by fine-chemical suppliers; midstream, polymer chemistry firms and advanced materials labs perform controlled polymerization, molecular-weight tuning, and spectral engineering to produce NIR-emissive resins or masterbatches; downstream, these polymers are compounded into inks, films, fibers, or sensor layers by coating-material and optoelectronic component manufacturers, and finally integrated by end-users in medical devices, photonic sensors, smart packaging, security printing, and infrared-active textiles—where performance is defined by emission wavelength stability, quantum efficiency, biocompatibility, and long-term photostability. In 2025, global Near-Infrared Emissive Polymer output reached about 64,000 tons versus an installed capacity of roughly 78,000 tons, with prices ranging from USD 12,000 to 23,000 per ton and

average gross margins near 46%.

This report is a detailed and comprehensive analysis for global Near-Infrared Emissive Polymer 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 Near-Infrared Emissive Polymer market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Near-Infrared Emissive Polymer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Near-Infrared Emissive Polymer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Near-Infrared Emissive Polymer market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Near-Infrared Emissive Polymer

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 Near-Infrared Emissive Polymer 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 Epolin (USA), Crysta-Lyn Chemical (USA), H.W. Sands (USA), Exciton (USA), Merck (Germany), Sumitomo Chemical (Japan), DIC Corporation (Japan), Idemitsu Kosan (Japan), Evermore Chemical (China), Dow Chemical (USA), etc.

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

## **Market Segmentation**

Near-Infrared Emissive Polymer 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

Photostable Polymer

Biostable Polymer

Degradable Polymer

### Market segment by Emission Wavelength

700–900 nm

900–1,300 nm

1,300–1,700 nm

### Market segment by Application

Textile

Packaging

Healthcare

Industrial

Others

### Major players covered

Epolin (USA)

Crysta-Lyn Chemical (USA)

H.W. Sands (USA)

Exciton (USA)

Merck (Germany)

Sumitomo Chemical (Japan)

DIC Corporation (Japan)

Idemitsu Kosan (Japan)

Evermore Chemical (China)

Dow Chemical (USA)

BASF (Germany)

Clariant (Switzerland)

Solvay (Belgium)

Saint-Gobain (France)

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 Near-Infrared Emissive Polymer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Near-Infrared Emissive Polymer, with price, sales quantity, revenue, and global market share of Near-Infrared Emissive Polymer from 2021 to 2026.

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

Chapter 4, the Near-Infrared Emissive Polymer 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 Near-Infrared Emissive Polymer 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 Near-Infrared Emissive Polymer.

Chapter 14 and 15, to describe Near-Infrared Emissive Polymer sales channel, distributors, customers, research findings and conclusion.

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