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Global Plastics in Consumer Electronics Market Size Study, By Product (Polycarbonate, Liquid Crystal Polymers, PC/ABS Glass Filled Resins, Bio-based Polycarbonate Resin, Thermoplastic Elastomers, Polyamides), By End-use (TV Frames, Laptop Monitor Enclosures, LCP Panels, Portable Hand Held Devices, Wearables, Mobile Phone Bodies, Appliances & White Goods, Others), And Regional Forecasts 2022-2032

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Abstracts

The Global Plastics in Consumer Electronics Market was valued at USD 6.24 billion in 2023 and is projected to expand at a CAGR of 2.5% from 2024 to 2032, reaching USD 7.79 billion by 2032. The market growth is primarily driven by rising demand for lightweight, durable, and high-performance materials in electronic devices, increasing adoption of bioplastics, and advanced polymer formulations in manufacturing consumer electronics.

Plastics play a crucial role in enhancing the design, durability, and functionality of electronic products, as they provide high impact resistance, optical clarity, and thermal stability. The growing trend toward miniaturization of electronics, rising penetration of IoT devices, and advancements in sustainable plastic alternatives are expected to drive further innovations in the industry. For instance, bioplastics and recyclable plastics are gaining traction as manufacturers prioritize sustainability and regulatory compliance.

As smartphones, wearables, and smart home devices continue to evolve, manufacturers are increasingly utilizing polycarbonate (PC), liquid crystal polymers (LCP), and bio-based polycarbonates to meet lightweight, energy-efficient, and

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aesthetic requirements. Moreover, the rise of 3D printing in consumer electronics manufacturing is enabling greater customization and rapid prototyping, further stimulating demand for advanced plastic materials.

From a regional perspective, Asia Pacific held the largest market share of 68.1% in 2024, owing to the presence of major electronics manufacturers, rising disposable income, and growing demand for advanced consumer electronics. North America is projected to grow at the fastest CAGR of 2.5%, fueled by sustainability-driven material innovations, regulatory pressure to reduce plastic waste, and increasing investment in smart device manufacturing.

Major Market Players Included in This Report:

Trinseo PLC

Covestro AG

Celanese Corporation

SABIC

Lotte Chemical Corp.

LG Chem

Mitsubishi Chemical Group Corporation

SAMSUNG SDI Co., Ltd.

DSM-firmenich

Kuraray Co. Ltd.

Qingdao GON Science & Technology Co., Ltd.

The Detailed Segments and Sub-Segment of the Market Are Explained Below:

By Product:

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Polycarbonate (PC)

Liquid Crystal Polymers (LCP)

PC/ABS Glass Filled Resins

Bio-based Polycarbonate Resin

Thermoplastic Elastomers

Polyamides

By End-use:

TV Frames

Laptop Monitor Enclosures

LCP Panels

Portable Hand Held Devices

Wearables

Mobile Phone Bodies

Appliances & White Goods

Others

By Region:

North America

U.S.

Canada

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- Mexico

Europe

- UK
- Germany
- France
- Italy
- Rest of Europe

Asia Pacific

- China
- India
- Japan
- South Korea
- Southeast Asia
- Rest of Asia Pacific

Latin America

- Brazil
- Rest of Latin America

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Middle East & Africa

Saudi Arabia

Rest of Middle East & Africa

Years Considered for the Study:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years (2022-2032)

Annualized Revenue and Regional-Level Analysis for each market segment

Competitive Landscape Analysis with information on major market players

Insights into Key Business Strategies, Growth Drivers, and Challenges

Supply & Demand Side Analysis of the market

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CHAPTER 9. RESEARCH PROCESS

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