

# **Polyolefin Sheets In Industrial Market Size, Share & Trends Analysis Report By Product (Polyethylene (PE), Polypropylene (PP)), By Application (Packaging & Pallet Liners, Chemical Storage & Containment), By Region, And Segment Forecasts, 2025 - 2030**

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## **Abstracts**

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### **Polyolefin Sheets In Industrial Market Growth & Trends**

The global polyolefin sheets in industrial market size is anticipated to reach USD 11.63 billion by 2030 and is projected to grow at a CAGR of 5.8% over the forecast period, according to a new report by Grand View Research, Inc. Polyolefin sheets, including polyethylene (PE) and polypropylene (PP), are increasingly favored in industries due to their lightweight yet durable properties. These materials offer high impact resistance, chemical stability, and flexibility, making them ideal for automotive components, packaging, and construction. For example, in the automotive sector, PP sheets are used in interior panels and battery casings for electric vehicles (EVs) to reduce weight and improve fuel efficiency. Similarly, in construction, high-density polyethylene (HDPE) sheets are used for vapor barriers and geomembranes due to their waterproofing capabilities and long lifespan.

The rising environmental concerns have led industries to shift toward sustainable materials, and polyolefins are highly recyclable compared to alternatives such as PVC. Many manufacturers now produce polyolefin sheets using recycled content, aligning with circular economy goals. For example, food packaging companies are adopting PP sheets made from post-consumer recycled (PCR) materials to meet regulatory standards such as the EU's Single-Use Plastics Directive. In addition,

innovations in biodegradable polyolefins, such as bio-PE derived from sugarcane, are gaining traction in eco-conscious markets.

The versatility of polyolefin sheets drives their adoption across multiple industries. In healthcare, PP sheets are used for sterile packaging and medical device components due to their sterilization compatibility. In agriculture, PE sheets serve as greenhouse films and pond liners due to their UV resistance and flexibility. The electronics industry also relies on polyolefin sheets for insulating components in devices. For example, cross-linked polyethylene (XLPE) sheets are used in cable insulation for their thermal stability and electrical resistance.

Polyolefin sheets are cost-effective compared to metals, glass, and engineering plastics, making them attractive for budget-sensitive industries. Advances in polymer processing technologies, such as extrusion and thermoforming, have further enhanced their performance and customization. For example, multilayer co-extruded PE sheets are used in food packaging to improve barrier properties against moisture and oxygen. In addition, the rise of additive manufacturing has enabled the use of polyolefin-based filaments for 3D-printed industrial parts, reducing material waste and production costs.

### Polyolefin Sheets In Industrial Market Report Highlights

The polyethylene (PE) segment accounted for the largest share of over 57.0% of the market in 2024.

Polypropylene (PP) is expected to grow at the fastest CAGR of 6.0% during the forecast period.

Based on application, the packaging & pallet liners segment dominated the market in 2024 by accounting for the largest revenue share of over 36.0%.

The construction components segment is expected to grow at the fastest CAGR of 6.7% over the forecast period of 2025 to 2030.

In 2024, the Asia Pacific region led the market, capturing the largest revenue share of over 47.0%, and is expected to grow at the fastest CAGR of 6.3% throughout the forecast period.

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