

Global Aerospace-Grade Acrylic Material Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aerospace-Grade Acrylic Material market size is expected to reach \$ 304 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global Aerospace-Grade Acrylic Material production reached approximately 11k tons, with an average global market price of around US\$17k per ton.

Aerospace-grade acrylic material typically refers to aviation-qualified acrylic—most commonly PMMA—used for aircraft/rotorcraft transparencies such as cabin windows and cockpit glazing/canopies. It prioritizes high optical clarity with low distortion, tight thickness and residual-stress control, weathering and chemical resistance, and strong crazing/solvent-stress-cracking resistance. Many aviation grades use crosslinked chemistries and “stretched acrylic” orientation processes to boost crazing resistance and mechanical behavior, and are supplied with inspection and traceable documentation to standards such as AECMA 4364/4366 and military specifications including MIL-PRF-5425 and MIL-P-25690.

Upstream includes MMA/PMMA resin systems, crosslinkers and stabilizers (weathering/UV packages), and process materials for sheet forming and post-processing. Midstream aviation-acrylic producers manufacture aviation sheets and stretched acrylic, performing casting/extrusion, crosslinking, stretching/orientation, grinding/polishing, and stress/optical inspection with lot-level compliance documentation (e.g., ACRYLITE aviation sheet qualified to prEN/AECMA 4364 and MIL-PRF-5425, and ACRYLITE Stretched qualified to AECMA 4366 and MIL-P-25690; PLEXIGLAS aviation offerings similarly map to AECMA 4364/4366 and MIL-PRF-5425/MIL-P-25690 requirements). Downstream transparency fabricators and aerospace OEM/MRO

ecosystems thermoform, CNC-machine, polish, laminate/coat, and assemble parts for commercial aircraft, rotorcraft, military platforms, and general/business aviation—used in windows, windshields, and canopies; representative downstream OEMs include Boeing, Airbus, Bell, and Airbus Helicopters.

The annual production capacity of a single-line Aerospace-Grade Acrylic Material is approximately 500 tons, with a gross profit margin of approximately 30%-50%.

This report studies the global Aerospace-Grade Acrylic Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aerospace-Grade Acrylic Material and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Aerospace-Grade Acrylic Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aerospace-Grade Acrylic Material total production and demand, 2021-2032, (Kilotons)

Global Aerospace-Grade Acrylic Material total production value, 2021-2032, (USD Million)

Global Aerospace-Grade Acrylic Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Aerospace-Grade Acrylic Material consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Aerospace-Grade Acrylic Material domestic production, consumption, key domestic manufacturers and share

Global Aerospace-Grade Acrylic Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Aerospace-Grade Acrylic Material production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Aerospace-Grade Acrylic Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Aerospace-Grade Acrylic Material market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include R?hm GmbH, Trinseo, SABIC,

Mitsubishi Chemical, Sumitomo Chemical, LX MMA, Lotte MCC, Kuraray, Plaskolite, Asahi Kasei, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Aerospace-Grade Acrylic Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Aerospace-Grade Acrylic Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aerospace-Grade Acrylic Material Market, Segmentation by Type:

Casting

Extrusion

Stretching

Global Aerospace-Grade Acrylic Material Market, Segmentation by Structural Forms:

Single Layer

Mezzanine

Others

Global Aerospace-Grade Acrylic Material Market, Segmentation by Thickness:

1-5mm

6-15mm

15-30mm

30-50mm

Others

Global Aerospace-Grade Acrylic Material Market, Segmentation by Application:

Airplane

Helicopter

Others

Companies Profiled:

Rohm GmbH

Trinseo

SABIC

Mitsubishi Chemical

Sumitomo Chemical

LX MMA

Lotte MCC

Kuraray

Plaskolite

Asahi Kasei

Avient

Evonik

Huashuaite

Double Elephant Optical Materials

Wanhua Chemical

CHIMEI Corporation

Qingdao Gon Technology

Key Questions Answered:

1. How big is the global Aerospace-Grade Acrylic Material market?
2. What is the demand of the global Aerospace-Grade Acrylic Material market?
3. What is the year over year growth of the global Aerospace-Grade Acrylic Material

market?

4. What is the production and production value of the global Aerospace-Grade Acrylic Material market?
5. Who are the key producers in the global Aerospace-Grade Acrylic Material market?
6. What are the growth factors driving the market demand?

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