

Global Highly Smooth MLCC Release Film Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Highly Smooth MLCC Release Film market size is expected to reach \$ 3170 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

Highly smooth MLCC release film is a core, high-consumption auxiliary material used in the manufacture of multilayer ceramic capacitors (MLCCs), a key electronic component. Essentially, it is a thin film with a specially treated surface exhibiting extremely high smoothness.

The upstream of the industry chain mainly includes high-purity PET/BOPET base film, modified polyester resin, silicone or fluorine-based release agents, functional additives for coating, and precision thin film manufacturing and surface treatment equipment (such as ultra-precision coating machines, stretching and alignment equipment, and clean coating systems). The midstream is the release film manufacturing stage, which involves ultra-high flatness control of the base film, nanoscale surface coating, and precise curing of the release layer to form a high smooth MLCC release film product with low roughness, stable release force, and high dimensional stability. This stage has high technological barriers and is mainly participated in by companies such as Lintec, Toray, and Teijin from Japan, and Jiemei Technology and Sidco from China. The downstream is mainly used in the casting and green ceramic tape preparation processes of MLCCs, ultimately serving high-end electronic devices such as smartphones, automotive electronics, 5G communication equipment, and AI servers.

In 2025, the global sales volume of highly smooth MLCC release film will reach 108 million square meters, with a production capacity of approximately 134 million square meters, an average selling price of US\$18.5 per square meter, and an average gross

profit margin of 30%-40%.

China, Japan, and South Korea have all prioritized high-end electronic materials as a key development area, promoting domestic substitution and material self-sufficiency in the MLCC industry chain. Meanwhile, global carbon neutrality and new energy policies are driving the development of electric vehicles and energy storage systems, indirectly boosting demand for automotive-grade MLCCs. In terms of industry dynamics, since 2025, MLCC industry inventories have continued to decline, and prices have entered an upward cycle, leading to a corresponding improvement in demand for upstream release films. Furthermore, several Chinese companies have achieved product coverage of high-end MLCC release films and have begun the verification phase with leading Japanese customers.

This report studies the global Highly Smooth MLCC Release Film production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Highly Smooth MLCC Release Film 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 Highly Smooth MLCC Release Film that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Highly Smooth MLCC Release Film total production and demand, 2021-2032, (K Sqm)

Global Highly Smooth MLCC Release Film total production value, 2021-2032, (USD Million)

Global Highly Smooth MLCC Release Film production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Highly Smooth MLCC Release Film consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Highly Smooth MLCC Release Film domestic production, consumption, key domestic manufacturers and share

Global Highly Smooth MLCC Release Film production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Highly Smooth MLCC Release Film production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Highly Smooth MLCC Release Film production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Highly Smooth MLCC Release Film 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 Toray, LINTEC, Mitsui Chemicals, Toyobo, Mitsubishi Chemical, Teijin, SKC, COSMO AM&T, Nan Ya Plastics, Shuangxing New Materials, 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 Highly Smooth MLCC Release Film market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 Highly Smooth MLCC Release Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Highly Smooth MLCC Release Film Market, Segmentation by Type:

Single-Sided Release Film

Double-Sided Release Film

Global Highly Smooth MLCC Release Film Market, Segmentation by Thickness:

3-5µm

3-5µm

5-10µm

Global Highly Smooth MLCC Release Film Market, Segmentation by Release Force:

2-8g/in

8-20g/in

>20g/in

Global Highly Smooth MLCC Release Film Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Communications

AI Servers

Others

Companies Profiled:

Toray

LINTEC

Mitsui Chemicals

Toyobo

Mitsubishi Chemical

Teijin

SKC

COSMO AM&T

Nan Ya Plastics

Shuangxing New Materials

Kanghui New Materials

Sidike

Jiemei Technology

Key Questions Answered:

1. How big is the global Highly Smooth MLCC Release Film market?
2. What is the demand of the global Highly Smooth MLCC Release Film market?
3. What is the year over year growth of the global Highly Smooth MLCC Release Film market?
4. What is the production and production value of the global Highly Smooth MLCC Release Film market?
5. Who are the key producers in the global Highly Smooth MLCC Release Film market?
6. What are the growth factors driving the market demand?

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