

Global Low-loss Materials for 5G Market Growth 2023-2029

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Abstracts

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The most revolutionary aspect of 5G network relies on the high frequency 5G technologies, i.e. mmWave 5G, which utilize spectrum from 26 GHz up to 40 GHz. At such high frequency, many technologies and devices are facing challenges. The high-frequency signals result in significant transmission loss, require higher power and more efficient power supply, and generate more heat. The transmission loss is a pain point for the antenna design and radio frequency (RF) integrated circuits (ICs) for 5G applications. For low-frequency 5G, i.e. sub-6 GHz 5G, due to the high data transfer speed, reducing signal loss is also desirable. With the future rise of mmWave 5G, low-loss materials will foresee a rapid growth and play an increasingly important role. In this report, we survey the landscape of the low-loss materials and benchmark their performance by five key factors, i.e. dielectric constant (Dk), dissipation factor (Df), moisture absorption, cost, and manufacturability. The scope for the report is shown in figure 2. Low-loss materials will not only be used as substrate or PCB board, but also for advanced packages. One of the strong trends is antenna in package (AiP); as we go higher in frequency towards mmWave, the size of the antenna elements will shrink and the arrays can be fitted into the package itself. This integration will also help shorten the RF paths, and thus minimize the transmission losses. AiP will need low-loss materials for the substrates (redistribution layers as well), electromagnetic interference (EMI) shielding, molded underfill (MUF) materials and more.

LPI (LP Information)' newest research report, the "Low-loss Materials for 5G Industry Forecast" looks at past sales and reviews total world Low-loss Materials for 5G sales in 2022, providing a comprehensive analysis by region and market sector of projected Low-loss Materials for 5G sales for 2023 through 2029. With Low-loss Materials for 5G sales

broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Low-loss Materials for 5G industry.

This Insight Report provides a comprehensive analysis of the global Low-loss Materials for 5G landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Low-loss Materials for 5G portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Low-loss Materials for 5G market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low-loss Materials for 5G and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Low-loss Materials for 5G.

The global Low-loss Materials for 5G market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for Low-loss Materials for 5G is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for Low-loss Materials for 5G is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for Low-loss Materials for 5G is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key Low-loss Materials for 5G players cover DuPont, Sartomer (Arkema), AGC Chemicals, Toray Industries, Mitsubishi Gas Chemicals, JSR Corp, Hitachi Chemicals, SABIC and Solvay, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

This report presents a comprehensive overview, market shares, and growth opportunities of Low-loss Materials for 5G market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Sub-6 GHz 5G

mmWave 5G

Segmentation by application

Smart Products

Infrastructure

Customer Premise Equipment (CPE)

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

DuPont

Sartomer (Arkema)

AGC Chemicals

Toray Industries

Mitsubishi Gas Chemicals

JSR Corp

Hitachi Chemicals

SABIC

Solvay

Kyocera

Sumitomo Bakelite

Key Questions Addressed in this Report

What is the 10-year outlook for the global Low-loss Materials for 5G market?

What factors are driving Low-loss Materials for 5G market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Low-loss Materials for 5G market opportunities vary by end market size?

How does Low-loss Materials for 5G break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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