

Global Luminescent Quantum Dot Films Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GD1124C535DFEN.html>

Date: July 2026

Pages: 195

Price: US\$ 4,480.00 (Single User License)

ID: GD1124C535DFEN

Abstracts

The global Luminescent Quantum Dot Films market size is expected to reach \$ 573 million by 2032, rising at a market growth of 11.0% CAGR during the forecast period (2026-2032).

Luminescent quantum dot films are functional optical films in which semiconductor quantum dots are uniformly dispersed in optical-grade resin and precision-coated onto high-barrier substrates. Quantum dots exhibit photoluminescence when excited by blue light, their emission spectrum can be precisely tuned via the quantum confinement effect, efficiently converting blue light into narrow-half-peak-width red and green light. In 2025, global luminescent quantum dot films production reached approximately 892 ton, with an average global market price of around USD 300,000 per ton. A factory gross profit of USD 60,000 per ton with 20% gross margin. A single line full machine capacity production is around 5 ton per line per year. The upstream is dependent on quantum dot materials, barrier films and resins. The downstream demand is concentrated in electronics, automotive display and lighting. Quantum Dot Enhancement Films (QDEF) used OLED TVs, placed behind the screen's backlight absorb harsh blue LED light and convert it into pure, highly saturated red and green light, widens the color gamut and improves energy efficiency. China and South Korea market are driven by massive display manufacturing.

This report studies the global Luminescent Quantum Dot Films production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Luminescent Quantum Dot Films 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 Luminescent Quantum Dot Films that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Luminescent Quantum Dot Films total production and demand, 2021-2032, (Tons)

Global Luminescent Quantum Dot Films total production value, 2021-2032, (USD Million)

Global Luminescent Quantum Dot Films production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Luminescent Quantum Dot Films consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Luminescent Quantum Dot Films domestic production, consumption, key domestic manufacturers and share

Global Luminescent Quantum Dot Films production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Luminescent Quantum Dot Films production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Luminescent Quantum Dot Films production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Luminescent Quantum Dot Films 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 Nanosys, Inc., 3M Company, Samsung Electronics, BOE Technology Group, LG Display, Ningbo Exciton Technology, Najing Technology, Nanjing Bready Advanced Materials, Daoming Optics, NanoTop, 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 Luminescent Quantum Dot Films market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Luminescent Quantum Dot Films Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Luminescent Quantum Dot Films Market, Segmentation by Type:

Cadmium Based Quantum Dot Films

Cadmium Free Quantum Dot Films

Global Luminescent Quantum Dot Films Market, Segmentation by Film Technology:

Quantum Dot Enhancement Film (QDEF)

Quantum Dot Color Conversion Film (QDCC)

Quantum Dot Composite Film

Others

Global Luminescent Quantum Dot Films Market, Segmentation by Thickness:

Ultra Thin (

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