

Global Luminescent Quantum Dot Films Market Growth 2026-2032

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Abstracts

The global Luminescent Quantum Dot Films market size is predicted to grow from US\$ 262 million in 2025 to US\$ 565 million in 2032; it is expected to grow at a CAGR of 11.7% from 2026 to 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.

United States market for Luminescent Quantum Dot Films is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Luminescent Quantum Dot Films is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Luminescent Quantum Dot Films is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Luminescent Quantum Dot Films players cover Nanosys, Inc., 3M Company, Samsung Electronics, BOE Technology Group, LG Display, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Luminescent Quantum Dot Films Industry Forecast" looks at past sales and reviews total world Luminescent Quantum Dot Films sales in 2025, providing a comprehensive analysis by region and market sector of projected Luminescent Quantum Dot Films sales for 2026 through 2032. With Luminescent Quantum Dot Films sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Luminescent Quantum Dot Films industry.

This Insight Report provides a comprehensive analysis of the global Luminescent Quantum Dot Films 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 Luminescent Quantum Dot Films portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Luminescent Quantum Dot Films market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Luminescent Quantum Dot Films 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 Luminescent Quantum Dot Films.

This report presents a comprehensive overview, market shares, and growth opportunities of Luminescent Quantum Dot Films market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Cadmium Based Quantum Dot Films

Cadmium Free Quantum Dot Films

Segmentation by Film Technology:

Quantum Dot Enhancement Film (QDEF)

Quantum Dot Color Conversion Film (QDCC)

Quantum Dot Composite Film

Others

Segmentation by Thickness:

Ultra Thin (

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Luminescent Quantum Dot Films Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Luminescent Quantum Dot Films by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Luminescent Quantum Dot Films by Country/Region, 2021, 2025 & 2032
- 2.2 Luminescent Quantum Dot Films Segment by Type
 - 2.2.1 Cadmium Based Quantum Dot Films
 - 2.2.2 Cadmium Free Quantum Dot Films
 - 2.2.3 Luminescent Quantum Dot Films Sales by Type
 - 2.2.3.1 Global Luminescent Quantum Dot Films Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Luminescent Quantum Dot Films Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Luminescent Quantum Dot Films Sale Price by Type (2021-2026)
- 2.3 Luminescent Quantum Dot Films Segment by Film Technology
 - 2.3.1 Quantum Dot Enhancement Film (QDEF)
 - 2.3.2 Quantum Dot Color Conversion Film (QDCC)
 - 2.3.3 Quantum Dot Composite Film
 - 2.3.4 Others
 - 2.3.5 Luminescent Quantum Dot Films Sales by Film Technology
 - 2.3.5.1 Global Luminescent Quantum Dot Films Sales Market Share by Film Technology (2021-2026)
 - 2.3.5.2 Global Luminescent Quantum Dot Films Revenue and Market Share by Film

Technology (2021-2026)

2.3.5.3 Global Luminescent Quantum Dot Films Sale Price by Film Technology
(2021-2026)

2.4 Luminescent Quantum Dot Films Segment by Thickness

2.4.1 Ultra Thin (

List Of Tables

LIST OF TABLES

Table 1. Luminescent Quantum Dot Films Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Luminescent Quantum Dot Films Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Cadmium Based Quantum Dot Films

Table 4. Major Players of Cadmium Free Quantum Dot Films

Table 5. Global Luminescent Quantum Dot Films Sales by Type (2021-2026) & (Tons)

Table 6. Global Luminescent Quantum Dot Films Sales Market Share by Type (2021-2026)

Table 7. Global Luminescent Quantum Dot Films Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Luminescent Quantum Dot Films Revenue Market Share by Type (2021-2026)

Table 9. Global Luminescent Quantum Dot Films Sale Price by Type (2021-2026) & (US\$/Ton)

Table 10. Major Players of Quantum Dot Enhancement Film (QDEF)

Table 11. Major Players of Quantum Dot Color Conversion Film (QDCC)

Table 12. Major Players of Quantum Dot Composite Film

Table 13. Major Players of Others

Table 14. Global Luminescent Quantum Dot Films Sales by Film Technology (2021-2026) & (Tons)

Table 15. Global Luminescent Quantum Dot Films Sales Market Share by Film Technology (2021-2026)

Table 16. Global Luminescent Quantum Dot Films Revenue by Film Technology (2021-2026) & (\$ million)

Table 17. Global Luminescent Quantum Dot Films Revenue Market Share by Film Technology (2021-2026)

Table 18. Global Luminescent Quantum Dot Films Sale Price by Film Technology (2021-2026) & (US\$/Ton)

Table 19. Major Players of Ultra Thin (

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Luminescent Quantum Dot Films
- Figure 2. Luminescent Quantum Dot Films Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Luminescent Quantum Dot Films Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Luminescent Quantum Dot Films Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Luminescent Quantum Dot Films Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Luminescent Quantum Dot Films Sales Market Share by Country/Region (2025)
- Figure 10. Luminescent Quantum Dot Films Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Cadmium Based Quantum Dot Films
- Figure 12. Product Picture of Cadmium Free Quantum Dot Films
- Figure 13. Global Luminescent Quantum Dot Films Sales Market Share by Type in 2026
- Figure 14. Global Luminescent Quantum Dot Films Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Quantum Dot Enhancement Film (QDEF)
- Figure 16. Product Picture of Quantum Dot Color Conversion Film (QDCC)
- Figure 17. Product Picture of Quantum Dot Composite Film
- Figure 18. Product Picture of Others
- Figure 19. Global Luminescent Quantum Dot Films Sales Market Share by Film Technology in 2026
- Figure 20. Global Luminescent Quantum Dot Films Revenue Market Share by Film Technology (2021-2026)
- Figure 21. Product Picture of Ultra Thin (

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