OLED Materials Market Tracker

Part of the Display Manufacturing, Technology & Components Service Area Package

Organic light-emitting materials used in the mass production of active-matrix organic light-emitting diode (AMOLED) panels include red, green, and blue (RGB) light-emitting materials; materials of common layers, including a hole transport layer (HTL), an electron transport layer (ETL), and a capping layer (CPL); and functional materials. This report deals with market analysis and forecast regarding organic light-emitting materials, consumption of the materials by AMOLED panel maker, and the status of organic light-emitting materials suppliers.

“OLED materials market will show a steady growth as more makers start to adopt OLED panels and new devices like QD OLED are introduced.”

Jimmy Kim
Ph.D., Principal Analyst
**OLED Materials Market Tracker**

*Part of the Display Manufacturing, Technology & Components Service Area Package*

**HOW OMDIA HELPS YOU**

- AMOLED materials demand and forecast
- Materials supply analysis
- Forecast on materials using newly developed devices
- AMOLED industry and market trend
- Short-term demand by AMOLED panel maker
- Long-term demand by AMOLED industry
- Competition analysis

**KEY QUESTIONS ADDRESSED**

- What are the demand, revenue, price and forecasts for the OLED materials by material type and maker?
- What are the supply chain of OLED materials and each maker’s share?
- What is the technology trend of OLED material development?

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**Emitting materials vs Common material**

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<tr>
<th></th>
<th>H2-17</th>
<th>H1-18</th>
<th>H2-18</th>
<th>H1-19</th>
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<td>Emitted material</td>
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<td>569</td>
<td>635</td>
<td>590</td>
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</table>

Common material: HTL, ETL/EIL, aETL, HBL, R', G', B' prime, CGL, CPL

Source: Omdia © 2020 Omdia
OLED Materials Market Tracker: Our Expert Analysts

Jimmy Kim
PhD., Principal Analyst
OLED Material Cost/ Backlight

Tadashi Uno
Senior Analyst
Display Components & Cost

Irene Heo
Principal Analyst
Display Optical Film
OLED Materials Market Tracker

Provides market analysis and the forecast for organic light-emitting materials, consumption of the materials by AMOLED panel makers and the status of organic light-emitting materials suppliers. This tracker contains critical market intelligence for brand manufacturers of TVs, monitors and mobile PCs, as well as display panel and component suppliers, manufacturers of competitive technologies, and investors.

DETAILS

Frequency
- Semi-annual update
- 1 year historical
- 5 year forecast

Measurements
- Material demand by panel maker
- Each material demand
- Material revenue

Regions
- Korea
- Japan
- China/Taiwan
- US
- Europe

PRODUCTS COVERED
- Small/medium sized AMOLED devices
- Material for large-sized panels

Technologies Covered
- High-Evaporation materials
- RGB separate device
- Stack device

APPLICABLE TO
- Brand manufacturers/OEMs/ODMs for TVs/monitors/mobile PC
- Product planning managers for system sales
- Procurement managers for display components
- Display panel suppliers
- Product marketing/strategic planning managers
- Display component suppliers
- Manufacturers of competitive technologies
- Investment community

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Executive Summary
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Demand analysis by AMOLED panel maker
Demand analysis: Worldwide
- FMM RGB type demand forecast
- WOLED type demand forecast
- Global demand forecast
Demands analysis: Price and market in value
- Price analysis
- Market forecast in value

Competition analysis: supply chain
Competition analysis: market share
- HTL material
- EML: Red host and dopant
- EML: Green host and dopant
- EML: Blue host and dopant
- ETL/EIL material
- Functional aid material

AMOLED materials industry
- Profile of material maker
- Material maker status update
- IP status
- New AMOLED technology & market trends update
- Methodology
OLED Display Cost Model

Optimize product and technology decisions involving OLED materials.

Organic light-emitting materials used in the mass production of active-matrix organic light-emitting diode (AMOLED) panels include red, green and blue (RGB) light-emitting materials; materials of common layers, including a hole transport layer (HTL), an electron transport layer (ETL); a capping layer (CPL); and functional materials.

✓ Know which applications and panel sizes are most profitable
✓ Understand which fab generation is better for lowering panel costs
✓ Know the estimated panel cost forecasts for buyers
✓ Find typical first-tier panel costs and component breakdowns
✓ Latest OLED panel costs and profit margin trends

Full display and notch display costs in Q4’19

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<th>Display Type</th>
<th>Full Display Cost</th>
<th>Notch Display Cost</th>
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<tr>
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<td>Notch OLED 5.9” 2496x1225</td>
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Source: Omdia © 2020 Omdia
About Omdia’s Display Manufacturing, Technology & Components Research

Industry’s most comprehensive coverage of the display supply chain focusing on upstream segments of panel and manufacturing technologies, equipment, as well as materials, components, and costs.

Our research team is based in Asia with extensive years of experience and have previously worked at FPD companies. Omdia’s primary research approach is surveying display supply chain companies, creating unique and highly data oriented analysis.

Strong focus in the “connect the dots” between various parts of the FPD industry, upstream, downstream, and to consumer electronics. Omdia research team deep dives of the many niche markets and technologies that characterize the front end of display industry.
Related Content: Display and Consumer Devices Service Area Coverage

**PRODUCTS IN RELATED SERVICE AREA**

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ABOUT OMDIA

Omdia is a global technology research powerhouse, established following the merger of the research division of Informa Tech (Ovum, Heavy Reading, and Tractica) and the acquired Omdia technology research portfolio*. We combine the expertise of more than 400 analysts across the entire technology spectrum, covering 150 markets. We publish over 3,000 research reports annually, reaching more than 14,000 subscribers, and cover thousands of technology, media, and telecommunications companies. Our exhaustive intelligence and deep technology expertise enable us to uncover actionable insights that help our customers connect the dots in today’s constantly evolving technology environment and empower them to improve their businesses—today and tomorrow.

* The majority of Omdia technology research products and solutions were acquired by Informa in August 2019 and are now part of Omdia.