

Quarterly AMOLED Emitting Material Market Track Sample

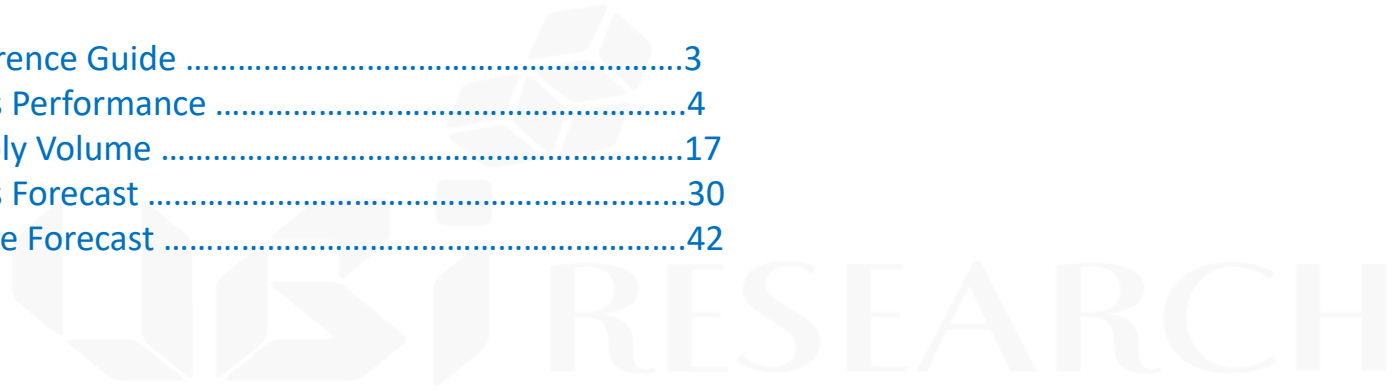
2Q, 2022

Analyst
Daejeong YOON

ydj7211@ubiresearch.com
Website : www.ubiresearch.com

Table of Contents

1. Reference Guide	3
2. Sales Performance	4
3. Supply Volume	17
4. Sales Forecast	30
5. Usage Forecast	42



Reference Guide

Application Covered

- Smartphone
- TV

Nation Covered

- Korea
- China

Purpose Covered

- CGL: n-CGL
- CPL
- Dopant: R, G, B, YG
- ETL: EIL, ETL, aETL
- Host: R, G, B, YG
- HTL: HIL, HTL, P+, RGB Prime

Actual and Forecast

- Quarterly update
- History : 3-year, Forecast : 5-year

Unit

- Revenue : US\$ millions
- Volume : ton



Sales Performance

- Total
- By Nation
- By Company
- By Layer
- By OLED Method
- By Purpose
- By Material

A1

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z



Main

■ Average Sales Price of Emitting Materials

- Contents

- > ASP of Emitting Materials
- > ASP of Host Materials
- > ASP of Dopant Materials
- > ASP of Common Layer Materials

> ASP of Emitting Materials (\$/g)

Items	1Q18	2Q18	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21	1Q22	
Red Host	219.4	219.4	217.7	214.2	216.7	217.3	215.3	215.3	214.4	217.1	217.2	216.2	217.0	216.7	215.1	215.4	216.2	
Red Dopant	219.3	221.7	219.3	217.2	217.1	219.4	219.7	219.4	219.4	219.7	219.2	219.6	219.5	219.4	219.7	219.4	219.7	219.7
Green Host	216.3	216.4	216.3	212.2	212.7	216.4	216.7	216.4	216.4	216.3	216.3	216.4	216.4	217.7	217.4	216.3	216.4	216.7
Green Dopant	217.3	216.3	214.1	212.0	212.9	216.1	217.9	216.9	216.2	216.3	216.3	216.3	216.3	216.2	216.7	216.1	216.1	216.1
Blue Host	214.9	214.4	214.0	211.4	211.1	211.7	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4	211.4
Blue Dopant	216.4	217.1	216.4	216.4	216.3	216.4	216.3	216.4	216.4	216.4	216.3	216.3	216.3	216.3	216.1	216.1	216.4	216.4
aETL	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
EIL	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
ETL	214.9	214.9	214.1	211.1	211.3	211.3	211.4	211.4	211.7	211.1	211.4	211.7	211.7	211.4	211.4	211.4	211.2	211.7
HIL	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
HITL	1.1	1.1	1.1	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
HTL	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
R'	11.0	11.0	11.0	11.0	11.1	11.3	11.0	11.3	11.7	11.4	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
G'	11.0	11.0	11.0	11.1	11.0	11.7	11.7	11.4	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
B'	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0

> ASP of Host Materials (\$/g)

File Home Insert Page Layout Formulas Data Review View Help

Clipboard Font Alignment Number Styles Cells Editing Analysis

Conditional Formatting Format as Table

Normal Bad Good Neutral

Insert Delete Format

AutoSum Fill Clear

Sort & Filter Find & Select

Analyze Data

A1

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF



■ Sales Performance and Supply Volume of Emitting Material Companies_Quarterly

- Contents
- > Sales Performance by Material Company and the Market Share
- > Supply Volume by Material Company and the Market Share

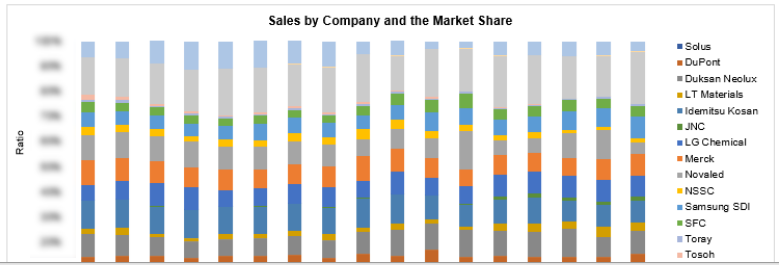
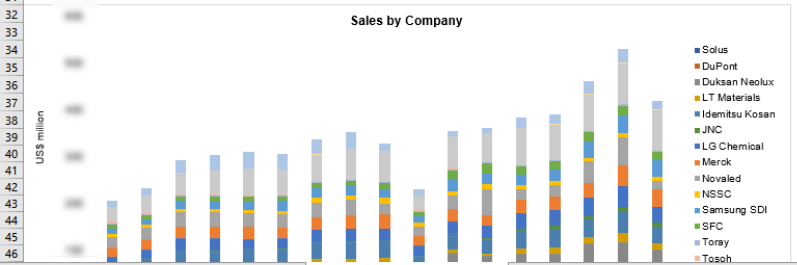
> Sales by Material Company

(US\$ million)

Company	1Q18	2Q18	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21	1Q22
Solus																	
DuPont																	
Duksan Neolux																	
LT Materials																	
Idemitsu Kosan																	
JNC																	
LG Chemical																	
Merck																	
Novaled																	
NSSC																	
Samsung SDI																	
SFC																	
Toray																	
Tosoh																	
UDC																	
Hodogaya																	
etc																	
Total																	

> Sales by Company and the Market Share

Company	1Q18	2Q18	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20	3Q20	4Q20
Solus												
DuPont												
Duksan Neolux												
LT Materials												
Idemitsu Kosan												
JNC												
LG Chemical												
Merck												
Novaled												
NSSC												
Samsung SDI												
SFC												
Toray												
Tosoh												
UDC												
Hodogaya												
etc												
Total												



File Home Insert Page Layout Formulas Data Review View Help

Clipboard Font Alignment Number Styles Cells Editing Analysis

Clipboard: Cut, Copy, Paste, Format Painter

Font: Arial, 11, Bold, Italic, Underline, Text Color, Background Color

Alignment: Wrap Text, Merge & Center

Number: General, Percent, Decimals

Styles: Normal, Bad, Good, Neutral

Cells: Insert, Delete, Format

Editing: AutoSum, Fill, Clear, Sort & Filter, Find & Select

Analysis: Analyze Data

A1

A B C D E F G H I J K L M N O P Q R S T U V W X



■ Emitting Material Supply Volume_Quarterly

- Contents
> Pivot of Quarterly Supply Volume (kg)

- 10 Nation (All) ▾
- 11 Application (All) ▾
- 12 Layer (All) ▾
- 13 OLED (All) ▾
- 14 Purpose (All) ▾
- 15 Material (All) ▾

17	kg																		
18	Company	1Q18	2018	3Q18	4Q18	1Q19	2019	3Q19	4Q19	1Q20	2020	3Q20	4Q20	1Q21	2021	3Q21	4Q21	1Q22	
19	BOE	761.0	761.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0	1099.0
20	CSOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	Everdisplay	129.0	129.0	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7
22	LG Display	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0	1090.0
23	Samsung Display	1219.0	1219.7	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0	1219.0
24	Tianma	171.0	171.0	171.0	171.0	171.0	171.0	171.0	171.0	171.0	171.0	171.0	171.0	171.0	171.0	171.0	171.0	171.0	171.0
25	Visionox	490.0	490.0	1090.7	1090.7	1090.7	1090.7	1090.7	1090.7	1090.7	1090.7	1090.7	1090.7	1090.7	1090.7	1090.7	1090.7	1090.7	1090.7
26	Royole	0.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	Truly	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	107.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	AUO	10.7	10.7	10.0	10.0	10.0	10.0	10.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	Sony	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	Sharp	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	Japan Display	109.0	109.0	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7
32	Grand Total	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0	1290.0

AutoSave | 2022Quarterly_AMOLED Emitting Material Market Track_UBIRResearch | Search (Alt+Q) | Sign in

File Home Insert Page Layout Formulas Data Review View Help

Clipboard Font Alignment Number Styles Cells Editing Analysis

A1														
	A	B	C	D	E	F	G	H	I	J	K	L	M	



Main

■ Emitting Materials Market Sales Forecast

- Contents
- > Pivot of Yearly Sales Forecast (US\$ million)

- Nation (All)
- Layers (All)
- OLED Method (All)
- Materials (All)
- Application (All)

	US\$ million				
Company	2022	2023	2024	2025	2026
BOE	255.1	335.5	349.4	381.4	407.2
CSOT	64.5	63.0	59.5	57.1	54.7
Everdisplay	32.5	32.3	31.7	30.8	29.8
LG Display	494.8	583.4	729.0	719.8	709.9
Samsung Display	770.0	803.6	871.4	963.4	1049.1
Tianma	47.4	46.3	44.7	42.7	40.6
Visionox	106.4	106.1	109.1	107.8	106.1
Grand Total	1776.8	1947.0	2194.8	2302.9	2387.4

File Home Insert Page Layout Formulas Data Review View Help

Clipboard Font Alignment Number Styles Cells Editing Analysis

Conditional Formatting Format as Table

Normal Bad Good Neutral

Insert Delete Format

AutoSum Fill Clear

Sort & Filter Find & Select Analyze Data

A1															
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	



Main

■ Emitting Materials Market Sales Forecast

- Contents
- > Pivot of Yearly Usage Forecast (kg)

- Nation (All)
- Layers (All)
- OLED Method (All)
- Application (All)
- Materials (All)

	kg				
Company	2022	2023	2024	2025	2026
BOE	11806.2	15516.5	18778.9	22041.4	25303.8
CSOT	2205.5	2311.7	2350.4	2421.9	2487.3
Everdisplay	1110.7	1181.2	1251.0	1309.8	1363.0
LG Display	28146.8	33178.1	42400.7	42442.2	42468.0
Samsung Display	57358.1	60751.0	66264.6	73461.0	80096.7
Tianma	1620.0	1700.8	1764.8	1811.1	1851.1
Visionox	3631.8	3971.1	4309.1	4578.4	4847.8
Grand Total	109051.1	119021.6	127118.5	144872.8	159051.7