

1Q22_Quarterly AMOLED Materials and Components Market tracker

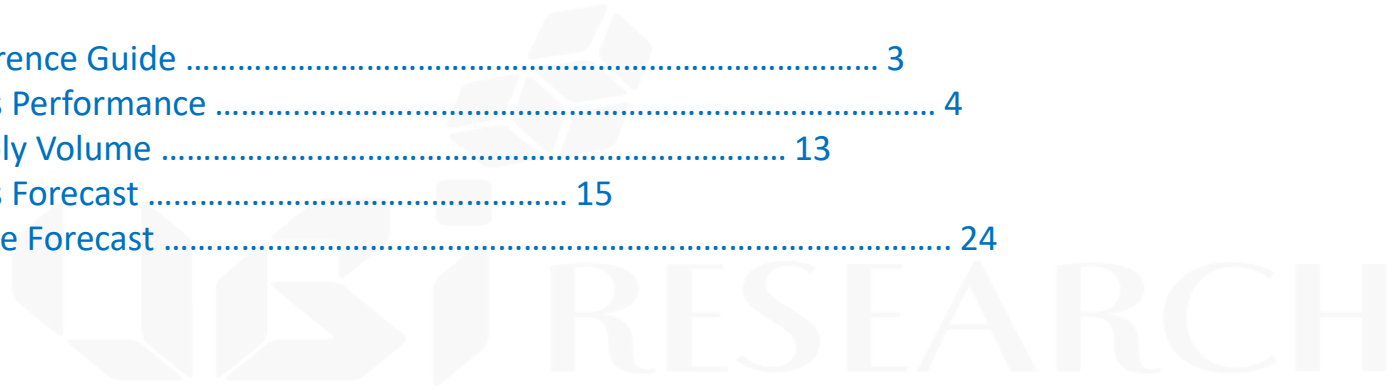
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Reference Guide

Application Covered

- Smartphone
- TV

Nation Covered

- Korea
- China

Purpose Covered

- Cover window: 2D, 3D, CPI, UTG
- Touch: Add-on, On-cell
- Polarizer
- OCA, OCR
- Encapsulation: Glass, Frit glass, TFE, Metal foil
- Substrate: Glass, Carrier glass, Polyimide
- PSPI
- Process Film
- Complex sheet
- Driver IC

Actual and Forecast

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

Unit

- Revenue : US\$ millions
- Volume : kg, ea, m²

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AMOLED Components & Material Market Track

- 1Q22 Data Tables

> **Average Sales Price of Materials_Q**

> **Sales Performance**

[PIVOT Quarterly Sales](#)

[PIVOT Quarterly Supply Volume](#)

> **Forecast**

[PIVOT Sales Forecast](#)

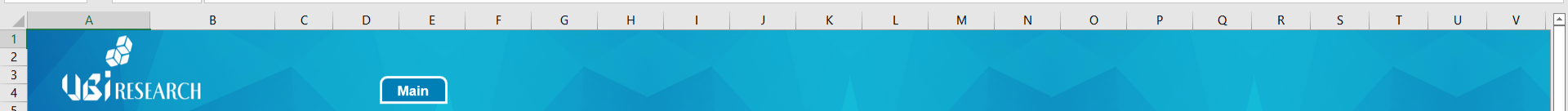
[PIVOT Usage Forecast](#)

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Average Sales Price of Components & Materials

- Contents

- > Average Sales Price of Components & Materials
- * Market of Key 20 components for OLED
- * No process cost on colorless polyimide's cost based on 8 inch
- * Cost of ultra thin glass includes process cost based on 7.6 inch

> Average Sales Price of Components & Materials

Components & Material		Unit	1Q18	2Q18	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21	
Substrate	Substrate glass	\$/m ²																	
	Carrier glass	\$/m ²																	
TFT	Polyimide	\$/kg																	
	PSPI	\$/kg																	
Encapsulation	Frit glass	\$/kg																	
	Encapsulation glass	\$/m ²																	
	Thin film encapsulation	\$/kg																	
Touch sensor	Metal Foil & FSA	\$/m ²																	
	On-cell touch	\$/m ²																	
	Add-on Touch	\$/ea																	
Polarizer	Over coat(on-cell touch)	\$/kg																	
	Polarizer	\$/ea																	
Adhesive	OCR	\$/kg																	
	OCA	\$/ea																	
Cover window	2D & 3D glass	\$/ea																	
	Colorless Polyimide	\$/ea																	
	Ultra thin glass	\$/ea																	
Module	Driver IC & COF	\$/ea																	
	Complex sheet	\$/m ²																	
	Process Film	\$/m ²																	

*1 US\$ = 1,100 KRW

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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



Components & Material Market Sales Performance_Quarterly

- 8 Nation (All) ▾
- 9 Company (All) ▾
- 10 Application (All) ▾
- 11 Substrate type (All) ▾

12 US\$ million

M&C	1Q18	2Q18	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21
-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

- 15 2D glass
- 16 3D glass
- 17 Add-on Touch
- 18 Carrier glass
- 19 Colorless polyimide
- 20 Complex sheet
- 21 Driver IC&COF
- 22 Encapsulation glass
- 23 Frit glass
- 24 Metal Foil & FSA
- 25 OCA
- 26 OCR
- 27 On-cell touch
- 28 Over coat(on-cell touch)
- 29 Polarizer
- 30 Polyimide
- 31 Process Film
- 32 PSPI
- 33 Substrate glass
- 34 Thin film encapsulation
- 35 Ultra thin glass
- 36 **Grand Total**



Components & Material Supply Volume_Quarterly

- 8 Nation (All) ▾
- 9 Company (All) ▾
- 10 Application (All) ▾
- 11 Substrate type (All) ▾

		Value																
M&C	Unit	1Q18	2Q18	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21	
2D glass	million ea																	
3D glass	million ea																	
Add-on Touch	million ea																	
Carrier glass	1,000,000 m2																	
Colorless polyimide	million ea																	
Complex sheet	1,000,000 m2																	
Driver IC&COF	million ea																	
Encapsulation glass	1,000,000 m2																	
Frit glass	ton																	
Metal Foil & FSA	1,000,000 m2																	
OCA	million ea																	
OCR	ton																	
On-cell touch	1,000,000 m2																	
Over coat(on-cell touch)	ton																	
Polarizer	million ea																	
Polyimide	ton																	
Process Film	1,000,000 m2																	
PSPI	ton																	
Substrate glass	1,000,000 m2																	
Thin film encapsulation	ton																	
Ultra thin glass	million ea																	



Components & Materials Market Sales Forecast

- Nation (All) ▾
- Company (All) ▾
- Application (All) ▾
- Substrate type (All) ▾

(US\$ million)

US\$ million					
M&C	2022	2023	2024	2025	2026
2D glass					
3D glass					
Add-on Touch					
Carrier glass					
Colorless polyimide					
Complex sheet					
Driver IC&COF					
Encapsulation glass					
Frit glass					
Metal Foil & FSA					
OCA					
OCR					
On-cell touch					
Over coat(on-cell touch)					
Polarizer					
Polyimide					
Process Film					
PSPI					
Substrate glass					
Thin film encapsulation					
Ultra thin glass					
Grand Total					



Components & Materials Market Usage Forecast

- Nation (All) ▾
- Company (All) ▾
- Application (All) ▾
- Substrate type (All) ▾

		Value				
M&C	Unit	2022	2023	2024	2025	2026
2D glass	million ea					
3D glass	million ea					
Add-on Touch	million ea					
Carrier glass	1,000,000 m2					
Colorless polyimide	million ea					
Complex sheet	1,000,000 m2					
Driver IC&COF	million ea					
Encapsulation glass	1,000,000 m2					
Frit glass	ton					
Metal Foil & FSA	1,000,000 m2					
OCA	million ea					
OCR	ton					
On-cell touch	1,000,000 m2					
Over coat(on-cell touch)	ton					
Polarizer	million ea					
Polyimide	ton					
Process Film	1,000,000 m2					
PSPI	ton					
Substrate glass	1,000,000 m2					
Thin film encapsulation	ton					
Ultra thin glass	million ea					



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