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(71) 가 가 가

1-12-1

(72) 가 가 1 1 가 가 가  
 가  
 가 가 1 1 가 가 가

(74)

:

(54)

 $T_o$  가 ( $T_G - 50'$ ) ( $T_G + 30'$ ) ,  $T_G$  LCD PDP ,

, ( FPD ) ( LCD ), ( PDP ).

, FPD, TFT - LCD, PDP

가 (綱製) 가 (bath) . . . ,

가 , 가

TFT-LCD , TFT ,  
RGB . , TFT-LCD

TFT-LCD 가 . TFT

## TFT-LCD 가

D , 가 , . . . . .

1. , ,  
T\_o \geq (T\_G - 50) , (T\_G + 30 ) , T\_G  
,

$$2. T_{\infty} \text{ 가 } (T_G + 20) \quad , \quad 1$$

3. 가 1.5mm, 1 2

4. 가 3mm , 1, 2 3

5. 가 1.5mm, 2

6. 가  $\text{SiO}_2$  40%,  $\text{Al}_2\text{O}_3$  0%,  $\text{B}_2\text{O}_3$  0%,  $\text{MgO} + \text{CaO}$  +  $\text{SrO} + \text{BaO} + \text{ZnO}$  1%,  $\text{Li}_2\text{O} + \text{Na}_2\text{O} + \text{K}_2\text{O} + \text{Rb}_2\text{O} + \text{Cs}_2\text{O}$  0%, 1%, 5%

7. 가  $\text{SiO}_2$  40 85%,  $\text{Al}_2\text{O}_3$  2 35%,  $\text{B}_2\text{O}_3$  0 25%,  $\text{MgO} + \text{CaO} + \text{SrO} + \text{BaO} + \text{ZnO}$  1 50%,  $\text{Li}_2\text{O} + \text{Na}_2\text{O} + \text{K}_2\text{O} + \text{Rb}_2\text{O} + \text{Cs}_2\text{O}$  1.1 30%, 1 5

8. 가  $\text{SiO}_2$  40 80%,  $\text{Al}_2\text{O}_3$  0 2%,  $\text{MgO} + \text{CaO} + \text{SrO} + \text{BaO} + \text{ZnO}$   
 1 50%,  $\text{Li}_2\text{O} + \text{Na}_2\text{O} + \text{K}_2\text{O} + \text{Rb}_2\text{O} + \text{Cs}_2\text{O}$  1.1 30%, 1 5

( )

), TFT-LCD 1.5mm LCD 3mm 0.3mm 1.5mm  
 , PDP 400kPa . 400kPa , TFT-LCD  
 가 . 350kPa , 300kPa

TFT-LCD  
100 /h 20 A , 20 100 /h ( ) 450 1h  
2 15ppm . 15ppm  
가

100 /h 20 PDP , 20 100 /h 580 1 500ppm . 500ppm  
가 .

가  $T_0$   
가 700mm  $T_0$

$$T_o \text{ 가 } (T_G + 30^\circ) \quad , \quad (T_G + 20^\circ) \quad , \quad T_o = (T_G + 20^\circ)$$

$$T_O \text{ 가 } (T_G - 50) \quad . \quad \text{가} \quad . \quad (T_G - 30) \quad , \quad (T_G - 20) \quad .$$

TFT-LCD  
 $\text{SiO}_2$  40 85%,  $\text{Al}_2\text{O}_3$  35%,  $\text{B}_2\text{O}_3$  25%,  $\text{MgO} + \text{CaO} + \text{SrO} + \text{BaO} + \text{ZnO}$  1 50%,  $\text{Li}_2\text{O} + \text{Na}_2\text{O} + \text{K}_2\text{O} + \text{Rb}_2\text{O} + \text{Cs}_2\text{O}$  0 0 1%, 5%

PDP  
35%,  $B_2O_3$  0 25%,  $MgO + CaO + SrO + BaO + ZnO$  1 50%,  $Li_2O + Na_2O + K_2O + Rb_2O + Cs_2O$  1.

1 30% SiO<sub>2</sub> 40 80%, Al<sub>2</sub>O<sub>3</sub> 0 2%, MgO + CaO + SrO + BaO + ZnO 1 50%, Li<sub>2</sub>O + Na<sub>2</sub>O + K<sub>2</sub>O + Rb<sub>2</sub>O + Cs<sub>2</sub>O 1.1 30% , 5%

T<sub>G</sub> 가 710 , SiO<sub>2</sub>:59.3%, Al<sub>2</sub>O<sub>3</sub>:17.5%, B<sub>2</sub>O<sub>3</sub>:7.7%, CaO:4.05%, MgO:3.25%, BaO:0.16%, SrO:7.64%, Cl:0.15%, F:0.18%, Na<sub>2</sub>O:0.01%, Fe<sub>2</sub>O<sub>3</sub>:0.056%

, 가 1600 가 ,  
1250  
가 0.8mm  
( ) ,  
가  
T<sub>O</sub> ( : ) , 670  
710 , 490 520 , , 3  
546mm×546mm , S ( : kPa) , A C ( : ppm)

[ 1 ]

T <sub>0</sub>	S	C
751	403	-
740	273	-
736	264	-
727	234	13.0
721	195	11.9
707	164	10.6

가

LCD, PDP FPD 가

(57)

1.

T<sub>G</sub> , T<sub>O</sub> 가 (T<sub>G</sub> - 50 ) (T<sub>G</sub> + 30 )

**2.**

1 ,

T<sub>o</sub> 가 (T<sub>g</sub> + 20 )**3.**

1 2 ,

가 1.5mm

**4.**

1 2 3 ,

가 3mm

**5.**

2 ,

가 1.5mm

**6.**

1 5 ,

가 SiO<sub>2</sub> 40 85%, Al<sub>2</sub>O<sub>3</sub> 0 35%, B<sub>2</sub>O<sub>3</sub> 0 25%, MgO +  
 CaO + SrO + BaO + ZnO 1 50%, Li<sub>2</sub>O + Na<sub>2</sub>O + K<sub>2</sub>O + Rb<sub>2</sub>O + Cs<sub>2</sub>O 0 1%

**7.**

1 5 ,

가 SiO<sub>2</sub> 40 85%, Al<sub>2</sub>O<sub>3</sub> 2 35%, B<sub>2</sub>O<sub>3</sub> 0 25%, MgO +  
 CaO + SrO + BaO + ZnO 1 50%, Li<sub>2</sub>O + Na<sub>2</sub>O + K<sub>2</sub>O + Rb<sub>2</sub>O + Cs<sub>2</sub>O 1.1 30%

**8.**

1 5 ,

가 SiO<sub>2</sub> 40 80%, Al<sub>2</sub>O<sub>3</sub> 0 2%, MgO + CaO + SrO + BaO + Z  
 nO 1 50%, Li<sub>2</sub>O + Na<sub>2</sub>O + K<sub>2</sub>O + Rb<sub>2</sub>O + Cs<sub>2</sub>O 1.1 30%