

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
C08G 64/08
C08G 64/20
C08G 64/16
H05B 33/22

(11)
(43)

10-2005-0006210
2005 01 15

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(86)
(86)

10-2004-7017402
2004 10 28
2004 10 28
PCT/US2003/009615
2003 03 31

(87)
(87)

WO 2003/093897
2003 11 13

(30)

10/134,050

2002 04 29

(US)

(71)

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,

(72)

47712

5629

12019

7

47711

638

47630

3322

01226

46

47712

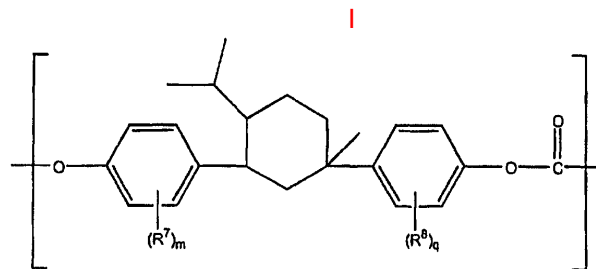
6500

(74)

:

(54)

가



R^7 R^8 $C_1 - C_6$,
 m 1 4 ,
 q 1 4 .

a) $\frac{1}{2}$;

b) ;

c) 2 2

가 .

(a) $\frac{1}{2}$;

(b) _____, 2

1	BHPM-PC	(%)	.
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가

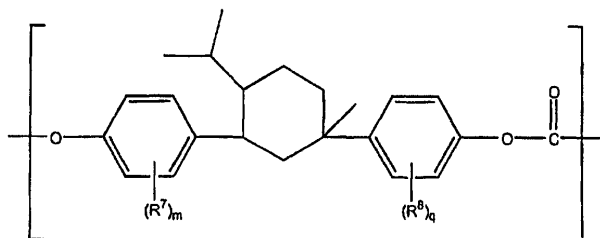
(haze)

(LCD)

(OELD)

4%

$\pm 3\%$



I 3가 R , S

$$R^7 \quad R^8 \quad C_1 - C_6$$

m 1 4 ,

q 1 4 .

30,000 100,000 .

0.5mm , 0.2mm , 가 0.1mm

± 100nm , 가 80%

가 (, 가) (25) 200 , 70

200 235

1 2 , 1 2 , 1 2

1 2 , 2 , 1 2 , 1 2

1 2 , 2 , 1 2 , 1 2

0.2mm , 가 0.1mm 0.5mm , 1

LC), (TNLC), (NLC), (TLC), (STNLC), (liotropic) (LLC), (F (C

TLC)

(ITO) II III

(GaIn)₂O₃, CdSn₂O₄, CdGa₂O₄, CdInO₄, CdSb₂O₆, CdGeO₄, In₂O₃, MgIn₂O₃, MgIn₂O₄, ZnO, Zn₂SnO₃, ZnSnO₄, Zn₂InO₅, ZnIn₂O₆, (GaIn)₂O₃, Sn, Ge, Al

In₂O₃, Ga, ZnO

Cu, Pt, Pd

10 200nm

(IBAD); (ECR) (PECVD); CVD(ETPCVD); (HIPCVD)

(ICP)

1cm³ ()/m² / atm 가 가

1g/m² /

1 500nm, 10 10 100nm 1 1

0000nm, 5000nm (CVD),

가

(IBAD); (ICP)

(ECR) (PECVD); CVD(ETPCVD); (HIPCVD)

EM EL

(n-)['PVK', 380 500nm]; (), (9,9-(410 550nm), ((436nm EL), { 9,9-(3,6-) -2,7- }(400 550nm); () , (2- -1,4-)(400 550nm) . 1

EL /

(-n-), (-n-), (-n-), () { (p -) [H. Suzuki et al., 'Near-Ultraviolet Electroluminescence From Polysilanes', 331 Thin Solid Films 64-70(1998)] 320 420nm

5000nm } , 380 500nm

1,3,5- EL {n-(4-)} , 380 500nm

m , , , , , 520n 415 457nm

- , 420 433nm - (4- -)

- () - {2,6- (t-)} EL

, 가 () () 가 (500nm , (2000 100nm) 가 , , / , 5,998,803 (1,2,5-)-p- (1,3-)

3,4,9,10- - (1,2,5-)-p- (1,3-)

가 , 6,023,371 , 3 , , , , , 가 , 6,023,371 (8-) , , , , , OELD

가

가

가

1

1,3- (4- BPA- 1

[1]

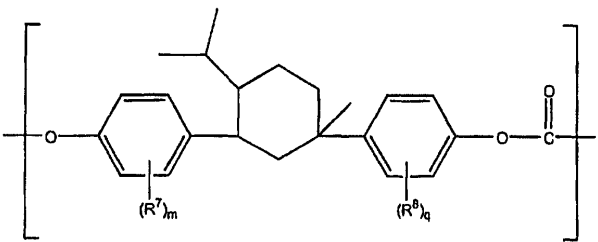
특성	BPA-PC	BHPM-PC
굴절률	1.585	1.555
광탄성계수(브루스터)	약 80	약 70
유리 전이 온도	145℃	235℃

, BHPM-PC 1 (%)

가

(57)

1.



3가

R , S

R 7 R 8 C 1 -C 6 ,

m 1 4 ,

q 1 4 .

2.
1 ,

R 7 R 8 , m 4 , q가 4 .

3.
1 ,

235 .

4.
1 ,

4% (haze) .

5.
1 ,

3% .

6.
1 ,

가 .

7.
1 ,

가 .

8.
1 ,

1 .

9.
8 ,

, .

10.
1 ,

1 .

11.
10 ,

, , , , ,
1 .

12.

11

,

가

1

13.

12

,

14.

I

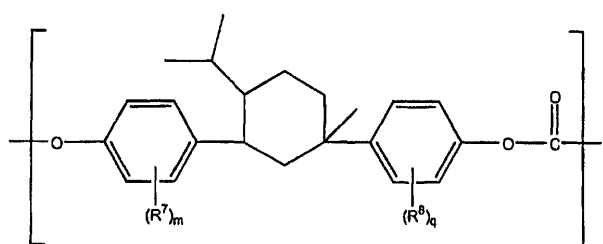
가

:

, 1

1

I



,

I

3가

R

, S

,

R⁷ R⁸

,

m 4

,

q 4

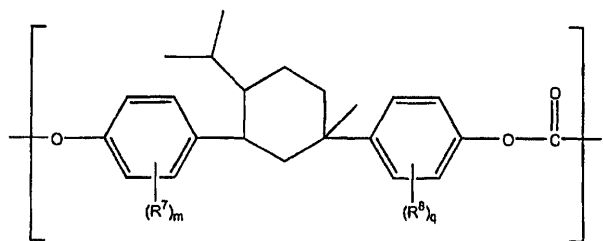
.

15.

I

:

I



,

I

3가

R

, S

,

R⁷ R⁸ C₁-C₆

,

m 1 4

,

q 1 4 .

16.
15 ,

R 7 R 8 , m 4 , q가 4 .

17.
15 ,
235 .

18.
15 ,
4% .

19.
15 ,
3% .

20.
15 ,
가 .

21.
15 ,
가 .

22.
15 ,
1 가 .

23.
22 ,
 ,

24.
15 ,
1 가 .

25.
24 ,
1 , , , , , .

26.
25 ,

1

가

27.

26

28.

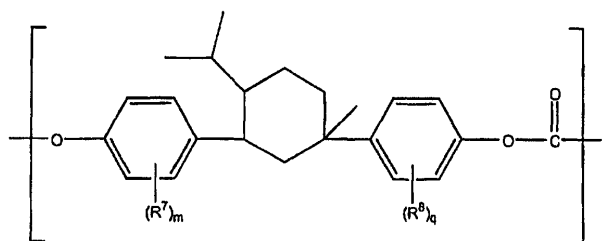
a) I 2 ;

b) ;

c) 2 2

:

I



,

I 3가 R , S ,

R⁷ R⁸ C₁-C₆ ,

m 1 4 ,

q 1 4 .

29.

28

R⁷ R⁸ , m 4 , q가 4 .**30.**

28

235

31.

28

4%

32.

28

(liotropic)

33.

28

3%

34.

28

1

35.

34

1

가

36.

35

37.

28

1

38.

37

1

39.

(a)

I

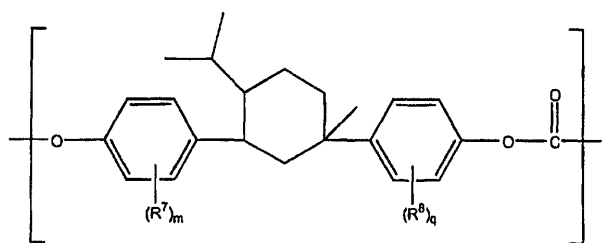
;

(b)

, 2

:

I



I

3가

R

, S

R⁷ R⁸ C₁-C₆

m 1 4

q 1 4 .

40.

39 ,

R 7 R 8 , m 4 , q가 4 .

41.

39 ,

235 .

42.

39 ,

4% .

43.

39 ,

3% .

44.

39 ,

1 .

45.

44 ,

1 , .

46.

39 ,

1 .

47.

46 ,

, , , , , 1 .

48.

47 ,

, , 1 가 .

49.

48 ,

.

50.

39 ,

(n-), (), (), , ,

51.

39 ,
1,2,3- {n-(4-) } , , {2,6- (t-) ,
(4-)- (), -

52.

39 ,
2 가 ('ITO'), ,

53.

39 ,
2 가 , K, Li, Na, Mg, La, Ce, Ca, Sr, Ba, Al, Ag, In, Sn, Zn, Zr, Sm, Eu,

