

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
C08L 25/10
C08K 5/03
C08K 3/22

(11)
(43)

10-2004-0060029
2004 07 06

(21) 10-2002-0086541
(22) 2002 12 30

(71) 2 290

(72) 90 7 102

2 204 101

90 7 206

3 308 603

(74)

:

(54)

90 % (a₂) 100 ; (B) 0.5 10 ; (E) 5 30 ; (C) 0.1 5 10 % 10 ; (D) 50
(A)(a₁) 0.2 0.8 μm 50

, Bi-Modal , ,

가 (flame) 가 (resistance) (ignition source)

가

(compounding) (monomer) (pilot scale) 가 가 가

가 가 가 가 가

가 Flow Mark 가 가 가

가 Bi-Modal

가

(C) (D) (A) (B) (E)

(A)

80 %

5 15 30 60 20 % , 40

1 70 97 , 85 95 1

1 1 , t-

가

가 0.2 0.8 μm (a₂) 2.0 3.0 μm (a₁)

(a₁) (a₂) (a₁)

95 0.2 0.8 μm (a₁) 50 90 % 50

2.0 3.0 μm (a₂) 10 50

0.2 0.8 μm (a₁) ,

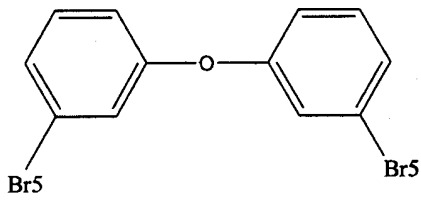
/ Bi-Modal

(B)

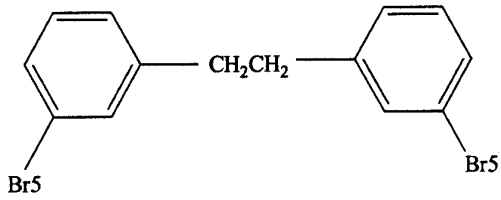
(b₂)가 (b₁) , 가

(b₁) (I) (II)

[]

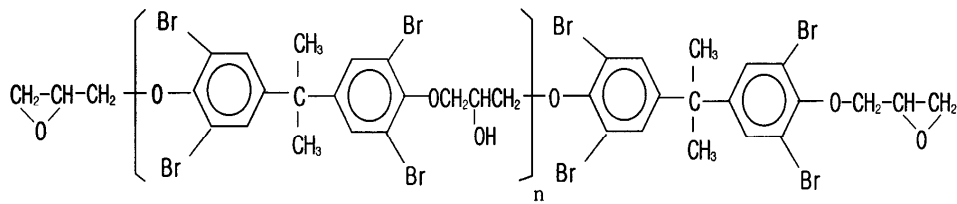


[]

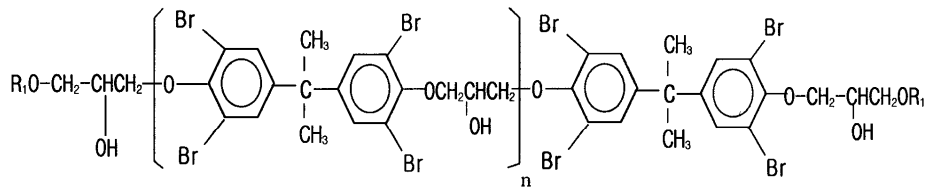


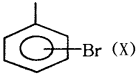
(b 2) (III), (IV) ()

[]

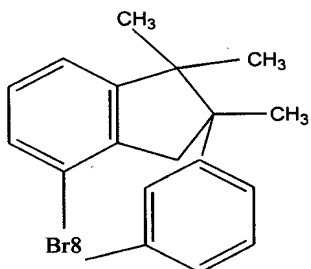


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(, n 0 , R 1  , X 1 5).

[]



. 5 가 가 100 가 30 5 30 가

2가 , 100 100 5 20
 , 30 , 5 가 가 100 가 , 10 가 가

(C) 가 (C)
 (A) 100 1 10 , 2 7
 (C) 10
 (C) 1

(D) (A) 100 0.5 10 가

(E) 1000 5000 (A) 100 0.1 5 가
 가 , , ,
 가

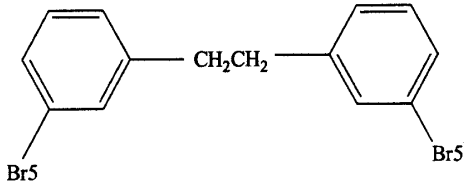
(A) , (B) , (C) , (D)
 (E)

(A)
 (a₁) 가 0.2 0.8 μm , 가 40
 % 60 % 11 %
 (a₂) 8 %
 (a₃) 11 %
 (a₄) 가 2.0 3.0 μm , 11 %

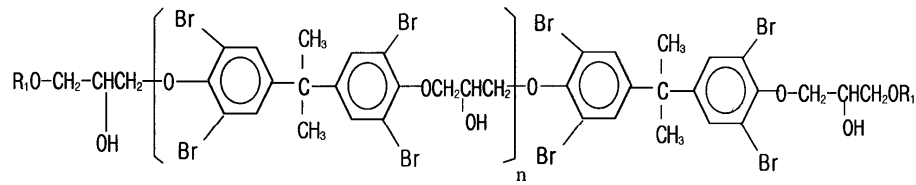
(B)

0 (II) (b₂) (b₁) 15 5 () 1000-110

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(, n 0 , R₁  Br^(X) , X 1 5).

(C)

社

(D)

(ASAHI)社 SBR

(E)

1,000 5,000

가 - (CIBA-GEIGY)社 IGANOX 1076 , () Zn-ste arate

1 - 5

1 가 0.5 1 가

1 - 6

1-4 1 , 5-7 가

1

[1]

| | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

| | | | | | | | | | | | | | |
|-----|-------------------|----|----|----|----|----|-----|-----|-----|-----|----|----|----|
| (A) | (a ₁) | 90 | 80 | 70 | 60 | 70 | 100 | - | - | - | - | - | - |
| | (a ₂) | - | - | - | - | - | - | 100 | - | - | 80 | 70 | 60 |
| | (a ₃) | - | - | - | - | - | - | - | 100 | - | 20 | 30 | 40 |
| | (a ₄) | 10 | 20 | 30 | 40 | 30 | - | - | - | 100 | - | - | - |
| (B) | (b ₁) | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | (b ₂) | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| (C) | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| (D) | | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| (E) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

()

(henshell)

- (1) : ASTM D-256 1/4 가 .
- (2) : ASTM D-1238 200 , 5kg 가 .
- (3) : UL-94 .
- (4) : 가 , hol
 e 가 10 flow mark 가 가 , 4
 2

[2]

| | | | | | | | | | | | | |
|--|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | 9.5 | 10.5 | 12 | 13 | 11 | 7 | 4 | 15 | 12 | 8.5 | 9.2 | 9.5 |
| | 9 | 11 | 14 | 15 | 14 | 8 | 20 | 5 | 18 | 17 | 14 | 12 |
| | V-0 | V-0 | V-0 | V-0 | V-0 | V-0 | V-0 | V-0 | V-0 | V-0 | V-0 | V-0 |
| | 2 | 3 | 4 | 5 | 3 | 1 | 1 | 10 | 10 | 3 | 4 | 5 |

2 가
 , Bi-Modal
 (a₁) 50 90
 가가

가

가

(57)

- 1.
- (A) (a₁) 0 μm 0.2 0.8 μm 50 10 % 50 90 % (a₂) 100 ; 2.0 ~ 3.
- (B) 5 30 ;
- (C) 1 10 ;
- (D) - 0.5 10 ;
- (E) 0.1 5 ;

2.

1 , (A) , 3 30
/ 70 97

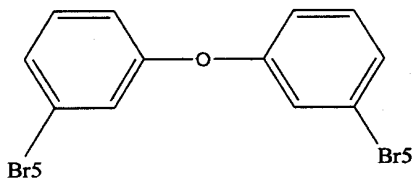
3.

2 , 60 20 % 40 80
%가

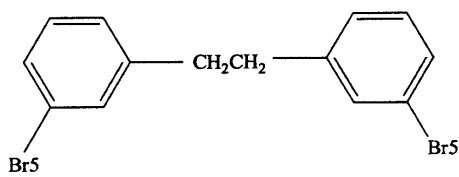
4.

1 , (B) () ()
(), () ()

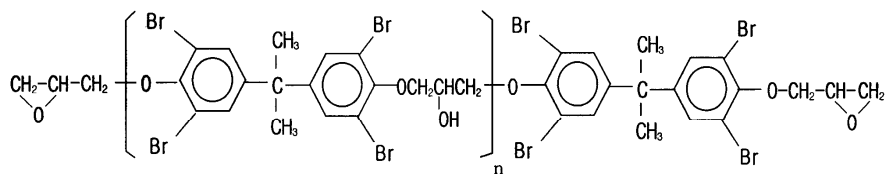
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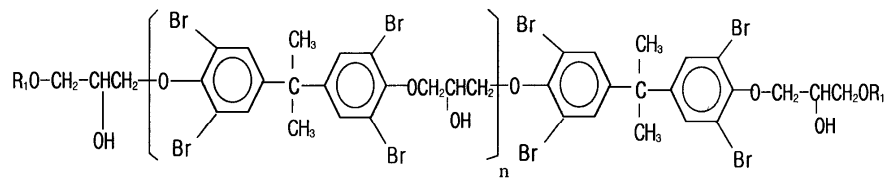
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


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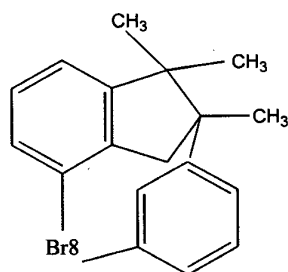


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(, n 0 , R₁  , X 1 5).

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5.

4 , 5 20 , 1 10 (), () () , 5 20 1 10