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(A)

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[illegible]

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(71)

- 51368

2040 420 507

(72)

,			
41539		41	
,			
- 9100			52
,			
- 9170	-	-	9
,			
- 9100	-		59
,			
- 2990		30	

(74)

:

(54)

,

.

,

,

,

,

,

,

2 (hollow chamber)

가

가 가

(phase b

oundary process)

,

,

EP - A - 264 - 885

JP - A - 07 19 67 83

2 pp

m

가
Fe, Cr, Ni, Zn, Ca, Mg, Al

a) c)

a) Fe, Cr, Ni, Zn, Ca, Mg, Al

b)

c)

0.2 ppm 2 ppm 1 ppm 0.5 ppm
OH 1 ppm 0.5 ppm 0.1 ppm 100 % NaOH 0.3 ppm
1 ppm 0.5 ppm 0.1 ppm 20 55 % 30 50
%

(membrane process)

가
Fe, Cr, Ni, Zn, Ca, Mg, Al
() () 가
2 μ S/cm (DIN 38404 C 8) 0.02 mg/kg (VGB 3.3.1.1) SiO₂ 0.
1 ppm 100 ppb

가 1 2 3

a) e)

a) Fe, Cr, Ni, Zn, Ca, Mg, Al

b) , ,

c) , 가 1 ,

d) ,

e) .

, d) ()
() e) .

2 , 3 .

, , 1 , 2 , 3
, ,
d) 2 .

e) , 가 .

가 . ,

, 가 (freezing out method) .

0.01 5 μm , 0.02 1.5 μm , 0.05 1.0 μm
reboe GmbH, - 42477 (Pall GmbH, - 63363) (K
; SIKA - R CU1AS) 가 .

가

HCl H₃PO₄ H₃PO₄ 0.5 1.0 % 가
HCl H₃PO₄ 5 가

가 , 가 .

- .

HO - Z - OH (, Z
6 30) , () , () , ' - () ,
() , () , ()

5 - 2,2 - - (4 -) - (BPA/ - A),
- A, 4,4 - (-) - (M), 1,1 - - (4 -) - 3,3,
1,1 - - (4 -) - 3,3,5 - - A
, .

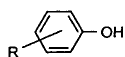
, , , 3,3' - 4,4' -

3 , N -
N - . 1 , , p - tert - 4 - (1,1,3,
3 -)
(branching agent)

20.0 % , , 1 1.0
가 .

, p - tert - , p - , p - n - , p - , p - n - p - - ,
, p - , 2,4 - , p - 2,4,6 - .

l .



R , tert - C₈ - () C₉ - .

p - tert - .

1 0.1 5 % 가

가 3

OH

4,6 - -2,4,6 - - (4 -) - -2 - , 4,6 - -2,4,6 -

- (4 -) - , 1,3,5 - - (4 -) - , 1,1,1 - - (4 -) - ,

- (4 -) - , 2,2 - - [4,4 - - (4 -) -] - , 2,4 - - (4 -

-) - , 2,6 - - (2 - -5' -) -4 - , 2 - (4 -) -2 - (

2,4 -) - , - (4 - (4 - -) -) - ,

- (4 -) - , - (4 - (4 - -) -) - 1,4 - - (4',4" -

) -) - 2,4 - , , 3,3 - -

(3 - -4 -) -2 - -2,3 - .

1 0.05 2 % .

가 .

80 % , 20 50 %가

가

0,000 M_w (12,000 400,000, 23,000 80,000, 24,000 4

25 100 ml 0.5 g

) .

2

150 m² 200 μm , 250 ,

2 가

5 % , 0.4 % 0.

1

, BPA (BPA) 가 (1),

6.5 %

가 (0.6 μa)

1.0 μ nom 가 0.6 %

가 5

0.2 μa

55 가 , 0.6 μa
- 2,2 - - (4 -) -
M_w 가

31,000

[1]

	1	2	3
% NaOH	50	50	32
Fe (ppm)	0.7	0.46	0.02
Ca (ppm)	2.0	0.4	< 0.1
Mg (ppm)	0.5	0.2	< 0.1
Ni (ppm)	0.2	0.2	< 0.01
Cr (ppm)	0.4	0.25	< 0.01
Zn (ppm)	0.1	0.05	0.06
(ppm)	3.9	1.56	< 0.3
	1	2	3
100% NaOH	1	2	3
Fe (ppm)	1.4	0.9	0.06
Ca (ppm)	4.0	0.8	< 0.3
Mg (ppm)	1.0	0.4	< 0.3
Ni (ppm)	0.4	0.4	< 0.03
Cr (ppm)	0.8	0.5	< 0.03
Zn (ppm)	0.2	0.1	0.19
(ppm)	7.8	3.0	< 0.9

[2]

	1	2	3
0.6 μ a	12 h	10 d	30 d
1.0 μ a	24 h	30 d	> 60 d
1 = 0.6 μ a 2 = 0.2 μ a	12 h	3 d	21 d

1 3

,

.

200 μ m 60 mm . He/Ne (0.1 mm " " 가)가 5000 Hz
 ,
 5 m/s .
 (0.10 mm) ,
 1 kg , m² 가

[3]

가			
		PC	
m ²	1	2	3
0.10 0.30 mm	148	93	35
> 0.30 mm	232	132	41
	380	225	76

ASTM D1003

가 , 3 (4 mm) 0.38 % 가 , /

(57)

1.

200 μ m m² 250 .

2.

200 μ m m² 150 .

3.

1 2 .

4.

1 2 ,

5.

200 μm m^2 250 .

6.

5 , 가 0.5 % .

7.

200 μm m^2 250 , 0.5 %

8.

200 μm m^2 250 , 0.5 %