

(19)  
(12)

(KR)  
(A)

(51) 。 Int. Cl.<sup>7</sup>  
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(71) 가 가  
2 3 13

(72) 2 3 13 가 가

2 3 13 가 가

2 3 13 가 가

2 3 13 가 가

(74)  
:

(54)

2 (非水性) ,  
1 X<sub>1</sub>, X<sub>2</sub> ····· X<sub>n</sub> ( n ), 20  
(mmHg) y<sub>1</sub>, y<sub>2</sub> ····· y<sub>n</sub> ( , n ) , A=x<sub>1</sub>y<sub>1</sub>  
+x<sub>2</sub>y<sub>2</sub>+·····+x<sub>n</sub>y<sub>n</sub>, B=x<sub>1</sub>/y<sub>1</sub>+x<sub>2</sub>/y<sub>2</sub>+·····+x<sub>n</sub>/y<sub>n</sub>  
(1), (2), (3) .

5 > A > 0.1 (1)

10 > B > 1 (2)

8 > (B - A) > 0.1 (3)

, , ,

55-65269

53-61412

54-89811

가

56-57862

59-146889

50-49004

57-36692

59-20696

가  
가

(高沸点)  
가

가

(methyl ethyl ketone),

가

가

$$P = x_1 y_1 + x_2 y_2 + \dots + x_n y_n \quad (\text{mmHg})$$

$$B = x_1 / y_1 + x_2 / y_2 + \dots + x_n / y_n$$

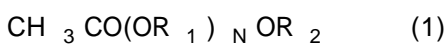
(1), (2), (3)

$$5 > A > 0.1 \quad (1)$$

$$10 > B > 1 \quad (2)$$

$$8 > (B - A) > 0.1 \quad (3)$$

가 1 가 (1) 1



(, R<sub>1</sub> , R<sub>2</sub> 1~4 , n 1~3 )

1  
1 , , , , .

1 2 X<sub>1</sub>, X<sub>2</sub> . . . . . X<sub>n</sub> ( n ), 2  
0 (mmHg) y<sub>1</sub>, y<sub>2</sub> . . . . . y<sub>n</sub> ( , n ) , A=x  
1 y<sub>1</sub> + x<sub>2</sub> y<sub>2</sub> + . . . . . + x<sub>n</sub> y<sub>n</sub>, B=x<sub>1</sub>/y<sub>1</sub> + x<sub>2</sub>/y<sub>2</sub> + . . . . . + x<sub>n</sub>/y<sub>n</sub>  
(1), (2), (3)

- 5 > A > 0.1 (1)
- 10 > B > 1 (2)
- 8 > (B - A) > 0.1 (3)
- 3 > A > 0.2 (4)
- 7 > B > 1.5 (5)
- 6 > (B - A) > 0.2 (6)

A B , B  
A가 B A가 B가  
(leveling) (blocking)  
A가 B가  
가 (3)~(6) 가 (3)~(6)  
(1)  
(1)  
, n-  
, -n-  
, -n-  
, -n-  
, -n-  
, -n-  
, -n-  
(isophorone) (cyclohexanone),  
, -n-  
, -n-  
, n- , n-  
, 1- , 1- , 1-  
, , , 1,1,

3,5,7- (cyclooctatetraene), (cyclododecene), (xylene) , , 80~97 % 가 Pigment Black 7, Pigment Blue- 15, 15:1, 15:3, 15:4, 15:6, 60, Pigment Green 7, 36, Pigment Red 9, 48, 49, 52, 53, 57, 97, 122, 149, 168, 177, 178, 179, 206, 207, 209, 242, 254, 255, Pigment Violet 19, 23, 29, 30, 37, 40, 50, Pigment Yellow- 12, 13, 14, 17, 20, 24, 74, 83, 86, 93, 94, 95, 109, 110, 117, 120, 125, 128, 137, 138, 139, 147, 148, 150, 151, 154, 155, 166, 168, 180, 185, Pigment Orange 36, 43, 51, 55, 59, 61, 71, 74 2~10 % , 3~7 % 가 (rosin) (coumaroneindene) (terpenephenol) (melamine) (尿素) (alkyd) (butyral) (fumaric acid) Super Ester 75, Ester Gum HP, MALKYD 33, 가 YS T80, 가 Hiretts HRT200X, Joncryl 586, Dow Chemi als UCAR solution vinyl resins VYHD, VYHH, VMCA 1~13 % , 3~8 % (polyaminoamide) BYC Chemie 'Anti-Terra-U( )', 'Anti-Terra-203/204( )', 'Disperbyk- 101( )', 107( )', 110, 111( )', 130( )', 161, 162, 163, 164, 165, 166, 170( )', 'BYK-P104, P105( )', 'P104S, 240S( )', 'Lactimon( (長鎖) )' Efka CHEMICALS 'Efka 44, 46, 47, 48, 49, 54, 63, 64, 65, 66, 71, 701, 764, 766', 'Efka Polymer 100( )', 150( )', 400, 401, 402, 403, 450, 451, 452, 453( )', 745( ; copper phthalocyanine)', 가 'Flowlen TG-710( )', 'Flownon SH-290, SP-1000', 'Polyflow No. 50E, No. 300( )', 'Disparlon KS-860, 873SN, 874( )', #2150( )', #7004( )' 가, 'Demol RN, N( )', MS, C, SN- B( )', EP', 'Homogenol L- 18( )', 'Emalgen 920, 930, 931, 935, 950, 985( )', 'Acetamin 24( )', 86( )', AVECIA ' 5000( )', 13940( )', 17000( )', 24000', ' T106( )', MYS-IEX( )' 0.1~10 %

가 , , (光) ,

(paint shaker), , ,

( )

(横型)

2

· Regal 400R(Cabot , ) 40.0

· Disperbyk 130(BYK Chemie ) 13.0

· Joncryl 586(Jhonson Polymer , ) 10.0

· ( : 0.25mmHg) 37.0

( 1)

A=0.61, B=5.33, B - A=4.72가

· 12.5

· ( : 3.75mmHg) 10.0

· ( : 0.25mmHg) 67.5

· ( : 0.05mmHg) 10.0

( 2)

A=1.21, B=2.74, B - A=1.52가

· 12.5

· ( : 3.8mmHg) 15.0

· ( : 1.0mmHg) 50.0

· ( : 0.25mmHg) 7.5

· ( : 0.1mmHg) 15.0

( 3)

A=1.83, B=2.18, B - A=0.35가

· 12.5

. ( : 2.47mmHg) 55.0

. ( : 0.6mmHg) 15.0

. ( : 1.7mmHg) 4.0

. ( : 0.1mmHg) 13. 5

( 4)

A=0.42, B=5.79, B - A=5.37 .

. 12.5

. ( : 1.0mmHg) 25.0

. ( : 0.25mmHg) 47.5

. ( : 0.05mmHg) 15.0

( 5)

A=1.56, B=7.58, B - A=6.02 .

. 12.5

. ( : 15.0mmHg) 5.0

. ( : 1.7mmHg) 35.0

. ( : 0.25mmHg) 31.5

. ( : 0.03mmHg) 16.0

( 1)

A=2.24, B=1.27, B - A=-0.97 .

. 12.5

. ( : 3.75mmHg) 40.0

. ( : 1.7mmHg) 30.0

. ( : 0.25mmHg) 17.5

( 1)

A=1.25, B=12, B - A=10.75가 .

. 12.5

. ( : 3.75mmHg) 20.0

- ( : 1.7mmHg) 20.0
  - ( : 0.25mmHg) 17.5
  - ( : 0.03mmHg) 30.0
- 1~5, 1, 2 가 (1) , (2)  
 , (3) , (4) , (5) , (6)
- (1) : 25 , VISCOMATE VM-100A( , )
- (2) : , 70 2 ,  
 , (1)  
 ± 10% , ± 10% ×
- (3) : IP-6500( ) MD5(Metamark  
 ) 5m (dot) 가 가 % 가  
 0% , 0%~5% , 5% ×
- (4) : IP-6500( ) MD5(Metamark  
 ) 가 가 가 가 가 가  
 35 , ( ) 40 가  
 0 가 가 × , 가 10 가 , 1
- (5) : IP-6500( ) MD5(Metamark  
 ) 40 3 , Rubbing Tester( AB301)  
 ( 3 ) 가 200g, 100 (rubbing) 가 가  
 가 ×
- (6) : IP-6500( ) MD5(Metamark  
 ) 40 3 , 1  
 가 가 ×
- 1~5, 1, 2 A, B, B A 가  
 1

[ 1 ]

	1	2	3	4	5	1	2
A	0.61	1.21	1.83	0.42	1.56	2.24	1.25
B	5.33	2.74	2.18	5.79	7.58	1.27	12
B-A	4.72	1.53	0.35	5.37	6.02	-0.97	10.75
(mPa.s)	9.86	9.33	9.22	10.1	9.83	9.21	10.2
						×	
						×	
							×
							×
							×

1~5  
1 2 , , , 가  
(B-A)가 , .

2 , , , , , .

(57)

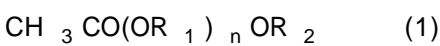
1. (非水性)  
2 1 X<sub>1</sub>, X<sub>2</sub> . . . . . X<sub>n</sub> ( n ), 20  
(mmHg) y<sub>1</sub>, y<sub>2</sub> . . . . . y<sub>n</sub> ( , n ) , A=x<sub>1</sub>y<sub>1</sub>  
+x<sub>2</sub>y<sub>2</sub> + . . . . . +x<sub>n</sub>y<sub>n</sub>, B=x<sub>1</sub>/y<sub>1</sub> +x<sub>2</sub>/y<sub>2</sub> + . . . . . +x<sub>n</sub>/y<sub>n</sub>  
(1), (2), (3)

5 > A > 0.1 (1)

10 > B > 1 (2)

8 > (B-A) > 0.1 (3)

2. 가 (1) 1



( , R<sub>1</sub> , R<sub>2</sub> 1~4 , n 1~3 .

3. 1 2 .