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(12) (B1)

(51) 。 Int. Cl. <sup>6</sup>  
C09B 29/085  
D06P 3/26

(45) 2002 12 12  
(11) 10 - 0352714  
(24) 2002 09 02

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(21) 10 - 1995 - 0002206 (65) 1995 - 0032476  
(22) 1995 02 03 (43) 1995 12 20

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(30) 94/32009 1994 02 04 (JP)  
94/32012 1994 02 04 (JP)  
94/208271 1994 08 10 (JP)

(73) 가 가 가  
1 11 2

(72) 2 - 336

3 - 17 - 1 - 402

가 3 - 1 - 16 - 512

3 - 17 - 1 - 303

(74)

:

(54)

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(microfiber),

가

( touch and hand) ,

가

가

가 가

가

(1)

가

(visual depth of shade)

(2)

가 가

(3)

(1) 가

(4)

(fineness)

가

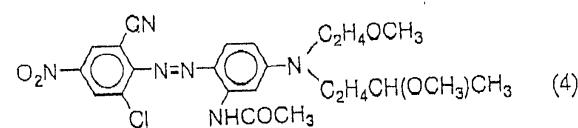
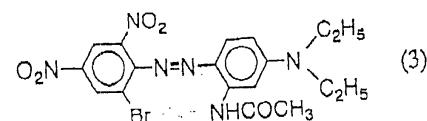
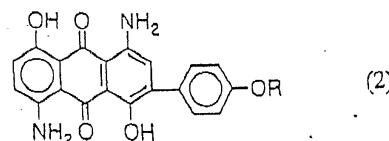
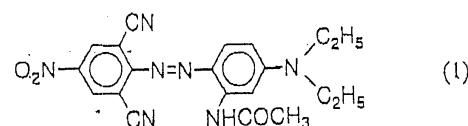
### (一體色調)

가

(2)

(5)

(1)



R

Y

R<sub>1</sub>

" " " " 1 4

(level - dyeing properties)

가

가  
가  
가  
가  
가

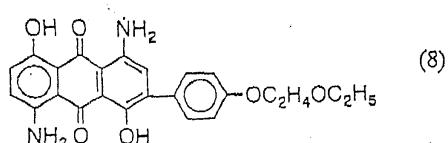
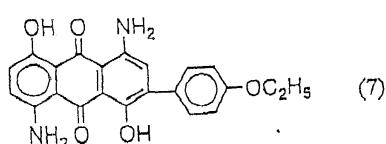
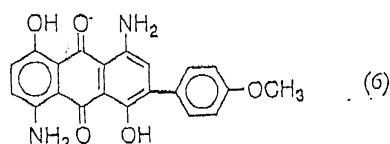
(2), (3), (4) (5) 1 (1)

0	30	%,	(1)	10	80	%,	(2)	0	20	80	%,	(3)
(4)	3	%	(4)	0	50	%	(5)	0	20	%	(2), (3)	
%,	(4)	(1)	25	75	%,	(2)	0	15	70	%,	(3)	
0	70	%	(4)	0	40	%	(5)	0	15	%,	(2), (3)	

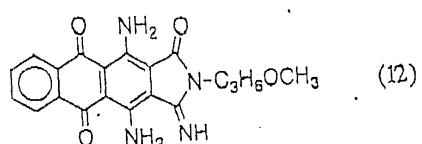
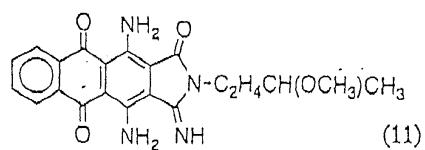
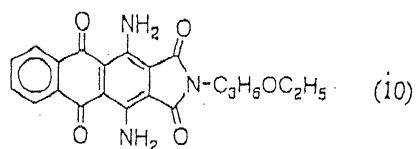
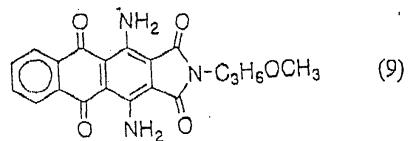
40	60	%	(1)	40	70	%,	(3)	5	20	20	%,	(4)	20
40	60	%	(5)	2	10	%,	(1)	20	45	%,	(2)		
40	60	%	(3)	5	20	%	(5)	2	10	%	(2)		

(5) (shading) (turquoise) (hue)

(2)



(5)



24707/1969	,	(2)	1,652,584	,	(3)
6952/1987	,	(4)	49062/1982	,	(5)
3384/1955	,	14992/1964	4872/1966	.	.

(1), (2), (3), (4) (5) (

(1), (2), (3), (4) (5) ,

가 (PET ),  
가 .

1 2  
1 1 - .  
0.14d [ " PET " ] , [ " PET " ]  
PET PET 가 가  
2  
( 가 ) ,

표 1: 1-배쓰 염색에서의 보통 PET 및 PET 미섬유에 대한 일체 색조 효과의 비교  
(note 1)

염료	색조의 시각적 심도 비 (비색적 값)(note 2)		시각적 판단에 의해 측정 되는 명확한 색조효과
	보통 PET	PET 미섬유	
실시예 1	100(기준)	78.0	우수함
실시예 2	100(기준)	72.3	우수함
실시예 3	100(기준)	75.7	우수함
실시예 4	100(기준)	76.9	우수함
실시예 5	100(기준)	74.6	우수함
실시예 6	100(기준)	80.2	우수함
실시예 7	100(기준)	76.1	우수함
실시예 8	100(기준)	77.5	우수함
실시예 9	100(기준)	77.3	우수함
시판염료 (note 3)	100(기준)	50.1	기준

(note 1) 1, 2, 3, 4, 5, 6, 7, 8 9 2 ( 3,  
99.) 2.0d 50 0.14d

50 60 130 2.0d 30 0.14d

50

2

( 3.0 )

0.14d

(note 2) PET PET COMSEKIII ( 가 가 가 ) 100 가 가 가 )

(note 3) Disperse Blue 56

표 2 견회도 시험(note 4)

염료	빛 (note 5)	송화성 (note 6)	세탁성 (note 7)
실시예 1	6 - 7	4	4 - 5
실시예 2	6 - 7	4	4 - 5
실시예 3	6 - 7	4	4 - 5
실시예 4	6 - 7	4	4
실시예 5	6 - 7	4	4
실시예 6	6 - 7	4	4 - 5
실시예 7	6 - 7	4	4
실시예 8	6 - 7	4	4
실시예 9	6 - 7	4	4
시판염료 (note 3)	6	3	3

(note 4) 1, 2, 3, 4, 5, 6, 7, 8 9 2 (  
 3,000 ) 100 60 130  
 , ,  
 1 ,

(note 5) JIS L 0842 JIS

(note 6) 180 30 JIS 0879B JIS

(note 7) 180 30 (AATCC Test Method 6111 A ) JI  
 S ,  
 1

(1) 12.2 , (3) 1.8 , (4) 6.7 (9) 1.3  
 Demol N( , ) 78 ( )  
 pH 4.5 2 가 3,000  
 100 60 130 . 10 80 45% 6 ,  
 6 , Sunmorl RC - 700( , ) 3 3,000

2

(1) 12.8 , (3) 1.9 , (4) 7.1  
1

1

3

(1) 14.2 (4) 7.8  
1

4

(1) 9.0 , (3) 1.3 , (4) 3.5  
13 Demol N 73.2

1

5

(1) 10.5 (6) 15.1  
1

6 9

(1) (4) (9) 1 5 3

표 3

염 료	실시예 6	실시예 7	실시예 8	실시예 9
일반식(1)의 염료	14.0	9.0	10.6	10.6
일반식(6) 및 (7)의 염료를 포함하는 염료	-	13.0	6.5	6.5
일반식(3)의 염료	6.0	-	2.7	2.7
일반식(4)의 염료	-	3.5	3.4	3.4
일반식(9)의 염료	-	-	-	1.3
총 합	20	25.5	23.2	24.5
Demol N	80	74.5	76.8	75.5

10

1, 2, 3, 4	5	2	(	3,000
60	130	2.0d	0.14d	50
		50		
		0.14		

가

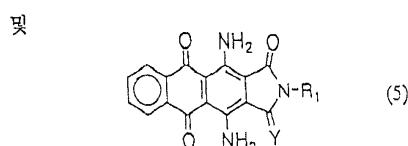
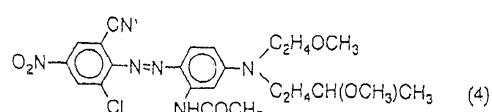
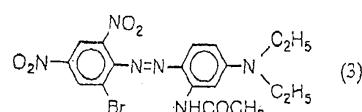
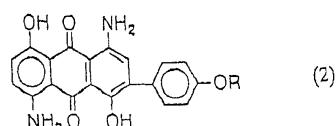
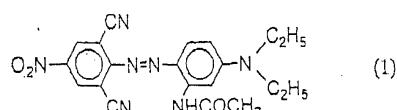
11

380	1	20	가	Fine Gum MC - 8(
;	Dai - ichi Kogyo Seiyaku	)	7.5%, Sorbitose C 5(	: W.A. Scholten )
0.3%		600		
7	175		10	80
2	, Meisanol BHS New(	,	, Meisei Kagaku Kogyo K.K. )	1
1,000		,		,

(57)

1.

(1) (2) (5)



,

R , - : -

Y ,

R<sub>1</sub> - - - , -

2.

1 20 , 40 % (1) 40 10 73 %, (3) 5 20 %, (

4) (5) 2 10 % .

3.

1 5 , 20 % (1) 20 10 45 %, (2) 25 70 %,

(3) (5) 5 10 % .

4.

1 , 2 3 .