

CPB (Cold Pad-Batch dyeing)

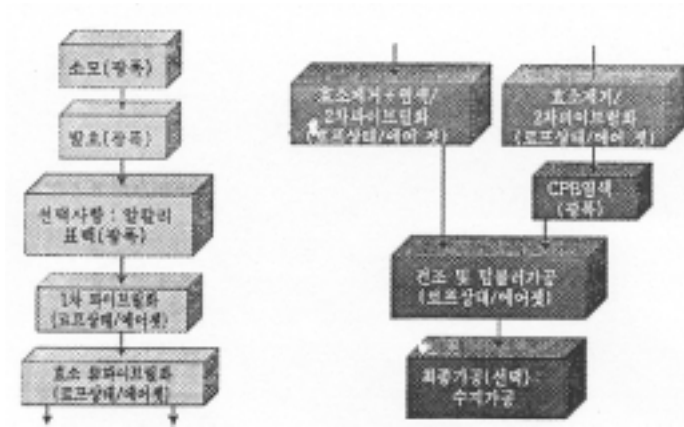
1.

가
가
最適化 . 가
製品, 工程, 設備 .
化 (streak),
(abrasion mark), (crease) . 가
2가 .

2.

(peach skin)

燒毛 拔糊 (1).
가
濕가
가 .



< 1> 가 例(1)

1

. 1

濕剛性(wet rigidity)

60

가

가

後續工程

1

非

가

, 2
60)

가

. 移染 (80 90

2

CPB

가

2

CPB

2

. 2官能基 多

發色團(chromophore)

가 (, Reactive black 5). 2

().

. 가

()

가 가

.

2. 例(非)

2.1 1

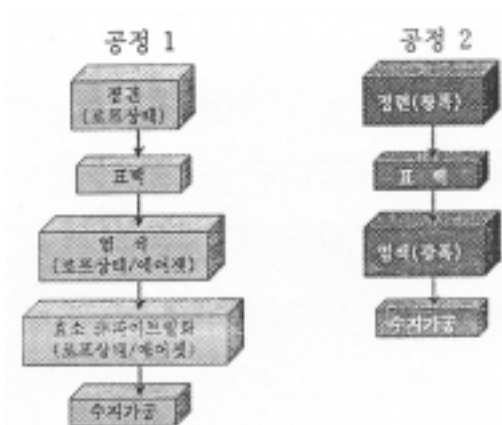
1 ,

(2 :).

, 가 .

,

가 .



< 2> (clean)가

2.2 2

2 가 (2 :).
(CPB) 가
非 가 . 가
가 .

2.3 3

가 (Axis, Acordis社)가
.
無色 ,
가 助劑 .
(, A100: Acordis ,
LF: Lenzing). 紡糸時
가 .
. 가
가 가 .

3.

CPB ,
/
 , CPB .

4. CPB

4.1 CPB

(batch)
 . CPB

300kg 0.9 (3
batch) CPB
. , , 間
.
CPB
CPB .
, , 가 , , ,
, CPB
.
CPB 低
. 10 : 1 100 l
kg , CPB 60 l /kg가
.
低 CPB
塩 . TDS(total dissolved solid) ,
. CPB
.
CPB 가 .
(非)
CPB .
2
.
, CPB .
CPB .



< 3> 가 (2)

4.2 CPB (4)

2 가 .

60 80

2

非 (昇溫)

. CPB 가 .



< 4> CPB

•高	• 2
•低	• .
•	• .
• CPB	• /
• /	•
•	• ,
•	

가 .

가 CPB

(batching time) 가

가 .

CPB .

가 .

가 , CPB

. CPB

가 .

가

槽가 . 染液

가 ,

가 .

CPB

가

CPB

5. CPB

가 ,

가 ,

殘基(residue)가 .

(20 25) .

,

.

3

가

1

가

(, 60m/min).

-
-
-
- ()/ (1)
- 85 100%
- 가
- Polyurethane 多孔質 ()
- (-)
- 가

< 5> CPB

高 () 綿

85 100%가

30 60

多孔質

()

(center wind)

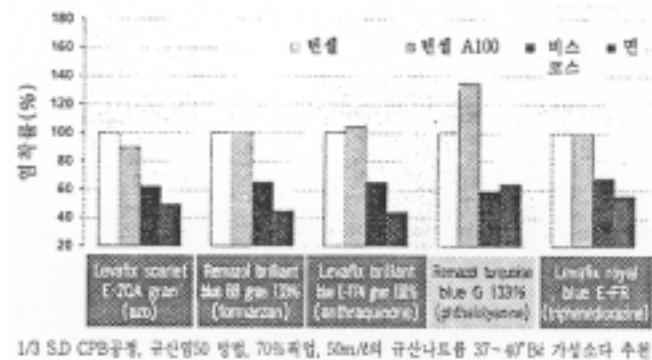
가
(). ()
가 3

6. CPB

CPB 가 (,
非)

6.1 (color strength)

1/3 , A100 ,
綿(50) . < 6>
(self shade) 가



< 6> CPB (, ,)

100% 3 A100 가

, Levafix scarlet E-2GA (90%) Remazol
turquoise blue G (135%). 가

(2 21%) 가

5%

44 60%

配合染色(combination dyeing)

2

A100

(benchmark : 100%)

(navy : 107%, green : 115%).

(navy)

15%

29%

가

A100

綿

6.2 (relative substantivity)

1 × , 1 × : 3 × , 3 × : 5 × , 5 × ,

(100%) ,

. 3 5

가

, A100, , 20g/ ℓ Remazol red RB gran

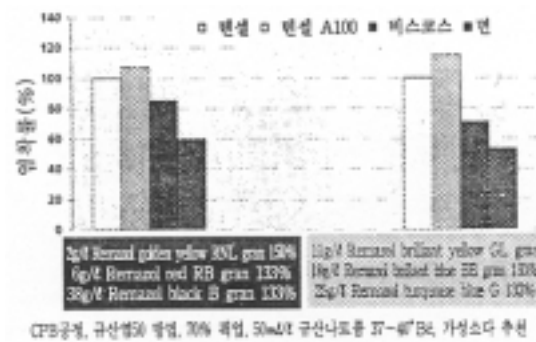
133%(7) Levafix brilliant red E-4BA gran(8)

가

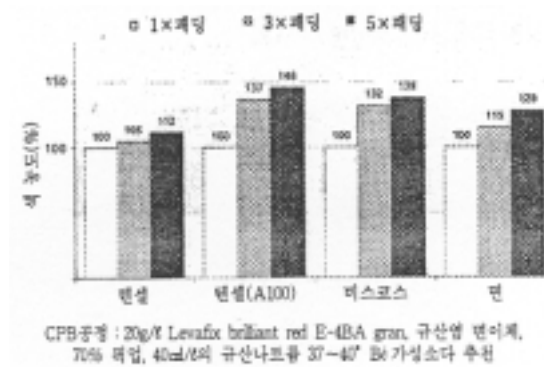
CPB

가

A100



< 7> CPB (, ,)



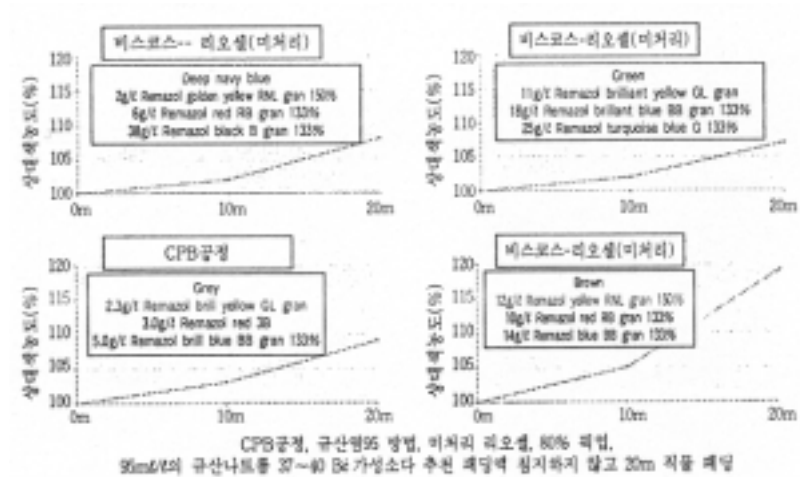
< 8> CPB (Levafix brilliant red E-4BA gran)

6.3 (tailing)

가

가

(9).



< 9> CPB :

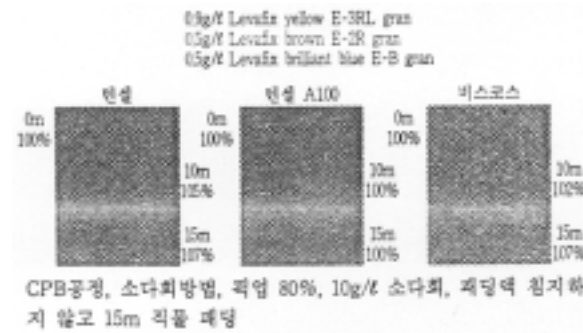
, 20m가

. Remazol 4 95
(9).

(0m) 100% , (10m), (20m) .
4가 . navy, green, gray
, brown

舉動 가 ,
가 .

Levafix ,
A100, (10).



< 10> CPB :

7% 가 , A100

가 .

가 A100

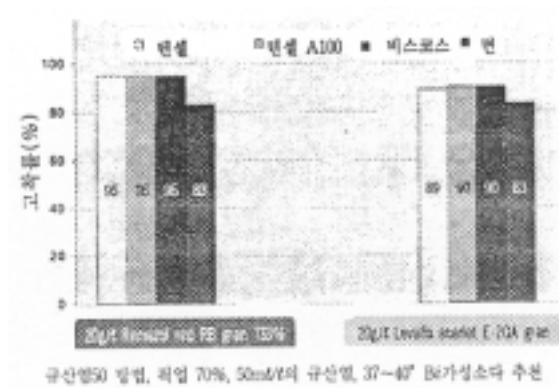
가 (6.2).

6.4 (fixation yield)

CPB , A100, , 2가

(11). 2가 ,

A100, 綿 .



< 11> , , CPB

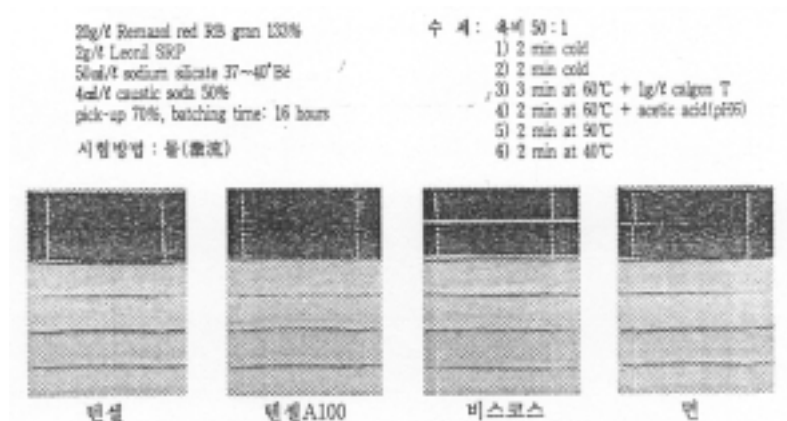
6.5 (washing-off)

, A100, , 20g/ℓ Remazol red RB gran 133%(50 , 12) 20g/ℓ Levafix scarlet E-2GA gran(, 13) CPB

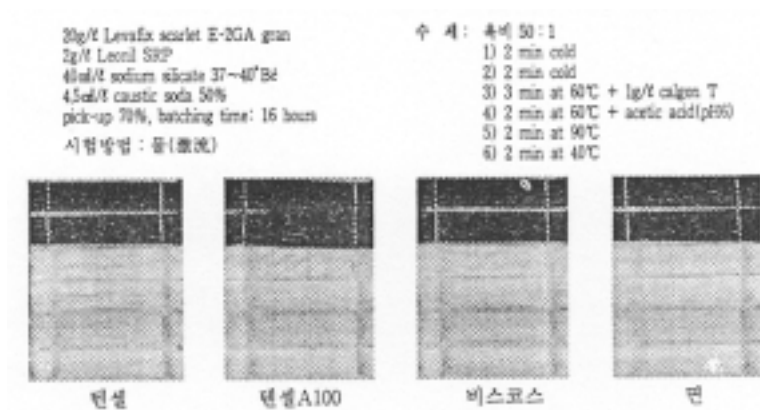
. 50 : 1 , 2 , 2 , 60 + 1g/ℓ Calgon T new 3 , pH 6 60 + 3Mℓ/ℓ 30% 2 , 90 2 40 2 .

가 , 가

. 가 (ISO 105- E01).



< 12> , , CPB



< 13> , , CPB

A100 Remazol red RB (color stain)

布(adjacent fabric)

가 (gray scale 4-5).

Levafix scarlet E-2GA

. A100 ,

가 . 綿

가 .

가 .

, , A100 .

Remazol red RB

A100

Levafix scarlet E-2GA

가

,

.

7. CPB

CPB

.

7.1 Levafix

Levafix

CPB

,

/가

도가

.

(1). < 1>

.

.

30 35

.

(pale shade)

1 2g/ ℓ

가

(10g/ ℓ).

移染相(migration phase)

.

, 24

,

/

.

粉碎(crushing)

2가

.

< 1> Levafix

CPB

:

→

:

/

-

低

,

(2 3) 가 () (: 25 35) : : 25 8 24(48)							
(g/ ℓ)	5	6 9	10	15	20	30	40
(g/ ℓ)	10	10	10	15	20	30	40

가 :

: 25 35

7.2 Remazol (silicate method)

Remazol () 가

. 50 95 ()
(2).

50 .

< 2> Remazol CPB : 50

→

: (2 3)							
----------	--	--	--	--	--	--	--

(g/ ℓ)	<20	30	40	50	60	70	100
(Mℓ/ ℓ)	50	50	50	50	50	50	
가 38°Be(Mℓ/ ℓ)	20	25	25	25	30	35	

: , (100g/ ℓ)

: , 가
/ : 20 25

8.

Levafix, Remazol 가
가 , Remazol red RB

2官能性,

多 高 가

架橋

濕

多

가

(anchor system)

(depth of shade)

가

가

8.1 (pale shade)

(淡色) 가

3

. < 3>

7.1

< 3>

Levafix 3

→ (nip)

→

→ 濕

→ 가

Levafix yellow E-3RL	Levafix yellow CA	Levafix golden yellow E-3GA
Levafix brown E-ZR	Levafix red CA	Levafix brilliant red E-BA
Levafix brilliant blue E-B	Levafix blue CA	

• Levafix yellow E-3RL 5g/ℓ : Levafix Golden yellow E-3GA가 .

• Levafix brilliant red E-BA (reddish) : Levafix red 가 .

8.2 (medium to dark shade)

中色 暗色 ,

. < 4> Remazol

.

< 4> Remazol 3

→ , ,

Remazol golden yellow RNL	Remazol yellow GR
Remazol red RB	Remazol brillant orange 3R
Remazol brillant red F3B	Remazol brillant blue BB
Remazol blue RR	Remazol blue CA
Remazol black B	

• Remazol red RB blue CA .

- Remazol yellow GR 非光好變性(non phototropic) 3
 .
- Remazol brilliant orange 3R Remazol red RB brilliant red F3B
 가 .
- Remazol brilliant blue RB blue CA blue BR
 .