

(cover)

1.

1)

가

, ,

.

,

, ,

(packing coefficient),

. ,

.

가

.

Peirce

가

가

(cover factor) ²⁾

. , Peirce

Kemp

.

가

. Vincent

가

(%)

.

Peirce

K₁

.

$$K_1 = \frac{n_1}{\sqrt{N_1}} \dots\dots\dots (1)$$

, n_1 :

N_1 :

K_2

. Rovinson

Marks

K_c

.

$$K_c = K_1 + K_2 \dots\dots\dots (2)$$

K_c

,

.

가

가

.

(%) K

.

$$K = \left(\frac{d_1}{p_1} + \frac{d_1 d_2}{p_1 p_2} \right) \times 100(\%) \dots\dots\dots (3)$$

, d_1 =

d_2 =

p_1 =

p_2 =

(3)

가

,

가

가

.

.

.

.

가

(optical cover ;

) (hair) ,

.

2.

가.

130cm,

105(10cm) 400ppm 가

. 가 29.5tex(20's)

5가 .

29.5tex, 25.0tex(24's), 20.0tex(30's), 14.5tex(41's)

12.0tex(49's) . 가 5가

. 가 29.5, 25.0 20.0tex

22.2, 19.5, 16.8, 14.4 11.4 /cm

가 14.5 12.0tex 25.2, 22.2. 19.5, 16.8 14.4 /cm

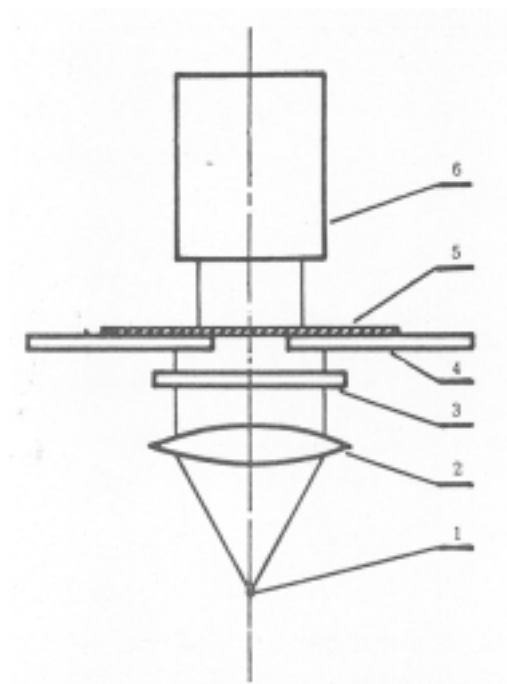
. 가 29.5~12.0tex A~E

. A, B, C 5 가

가 , 가 , 가 . 가 , . 가 .

(%) () .

< 2> .



1. 2. 3. 4. 5. 6.

< 2>

(5) $10 \times 10\text{cm}$

(1) (2)(collimating lens)

(photodetector)

30

3.

< 1>

< 1>

3/1

群에 따른 시 험 전		공 칭 위사면수 (tex)	공 칭 위사밀도 (문/10mm)	평 지			능 적 (3/1)		
				경사밀도 (문/10mm)	위사밀도 (문/10mm)	광학커버 K _{opt} (%)	경사밀도 (문/10mm)	위사밀도 (문/10mm)	광학커버 K _{opt} (%)
A	1	29.5	22.2	23.8	25.4	93.0	24.2	24.6	94.0
	2		19.5	23.3	22.4	91.2	24.0	21.4	92.4
	3		16.8	22.9	19.7	89.0	23.6	18.7	90.5
	4		14.4	22.7	17.4	86.9	23.8	16.2	89.1
	5		11.4	22.6	14.2	84.5	23.3	13.1	86.6
B	1	25.0	22.2	23.7	25.1	91.0	24.2	24.3	93.3
	2		19.5	23.2	22.3	88.9	23.8	21.4	90.4
	3		16.8	22.9	19.7	87.0	23.8	18.8	89.1
	4		14.4	22.8	16.8	85.6	24.1	16.4	88.4
	5		11.4	22.7	13.9	84.8	24.1	12.9	85.8
C	1	20.0	22.2	23.8	24.6	88.9	24.1	24.0	90.5
	2		19.5	23.3	21.9	86.8	23.6	21.4	88.8
	3		16.8	23.1	19.6	85.3	23.5	18.7	87.6
	4		14.4	22.8	16.8	84.3	23.7	16.1	86.6
	5		11.4	22.6	13.9	82.3	23.8	12.9	84.4
D	0	14.5	25.2	23.8	27.3	88.2	23.6	27.0	88.9
	1		22.2	23.7	24.9	87.1	23.5	24.1	88.0
	2		19.5	23.2	22.0	86.0	23.6	21.4	87.0
	3		16.8	22.7	19.6	84.4	23.6	18.3	85.8
	4		14.4	22.6	16.9	82.8	23.3	15.7	84.7
E	0	12.0	25.2	24.0	27.3	87.6	24.4	26.9	88.5
	1		22.2	23.8	24.4	86.5	24.1	23.8	87.2
	2		19.5	23.3	21.0	84.8	23.8	21.1	86.1
	3		16.8	22.9	19.4	83.3	23.7	18.2	84.8
	4		14.4	22.7	16.7	81.9	23.8	15.8	84.0

가

가

.

< 1>

가

가

가

.

,

.

(interlacement)

.

가

.

,

.

< 3~7>

5

.

가

.

가

.

< 8>

, < 8>

.

P_2 .

.

d_2

Y_{p2} Y_{t2}

.

$$Y_{p_2} = d_2 + \delta_{p_2} d_2 \dots\dots\dots (5)$$

$$Y_{t_2} = d_2 + \delta_{t_2} d_2 \dots\dots\dots (6)$$

, δ_{p2} , δ_{t2} : 가

$$\delta_{p2} \geq 0 \quad \delta_{t2} \geq 0$$

$$\delta_{p2}$$

, 가

. 가 .

δ_{t2} 가 . <

8> 3 A, B, C

가 . B ,

가 . Fv

. B

가 .

Fa가 ,

. B가 가

, (%) .

$$Y_{t2} \geq Y_{p2} \dots\dots\dots (7)$$

$$X_{t2} \leq X_{p2} \dots\dots\dots (8)$$

, X_{t2} : A, B

X_{p2} : A, B

$$\delta_{p2} \quad P_2$$

.

$$\delta_2 = \int (P_2) \dots\dots\dots (9)$$

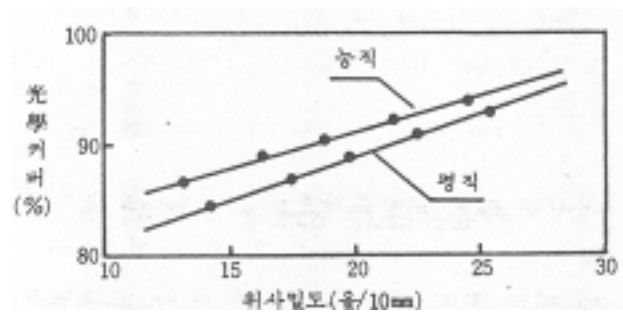
가 가 P_2 ,

가 .

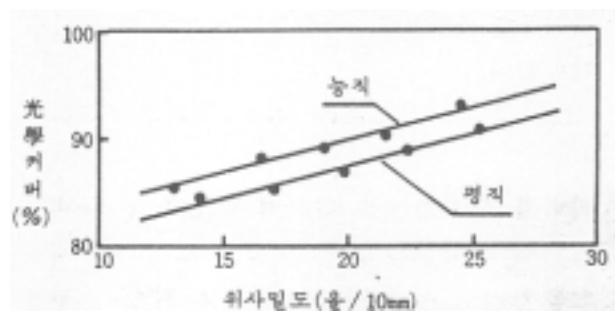
가

가

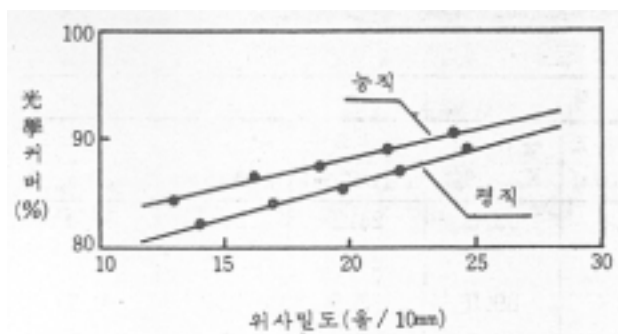
(%) 가 , < 3~7>



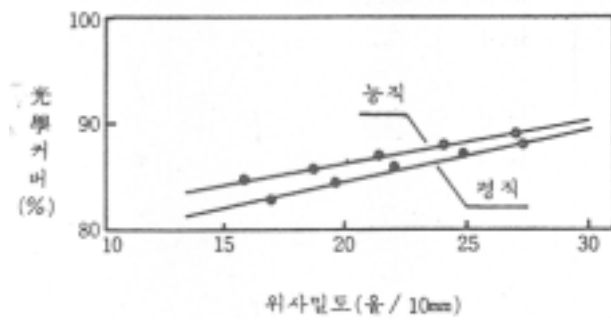
< 3> A (:29.5tex)



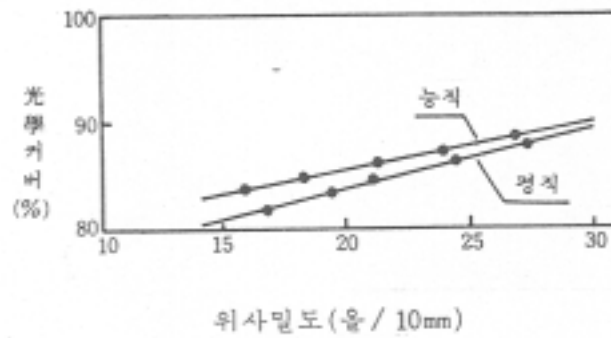
< 4> B (:25.0tex)



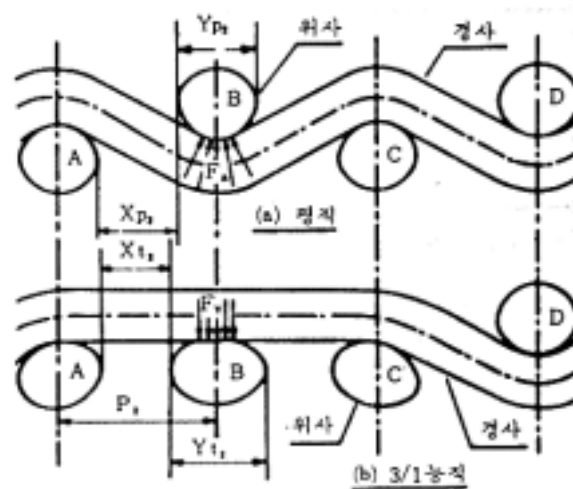
< 5> C (:20tex)



< 6> D (:14.5tex)



< 7> E (:12.0tex)



< 8>

4.

(%)

(%)

가

1) (cover, fractional cover)

(C)

$C = d/s = dn$ (, $d =$, $s =$, $n =$) .

2) (cover factor)

(K)

$n/\sqrt{N}$ (, $n =$, $N =$) .