

(竹)

1.

가 , , 가 . 가 , . , .

2.

2.1

3 (孟宗竹) (成竹) . , (幼竹: 3), (若竹: 6) .

2.2

, (纖維束) 가 . . < > , .

2~3%

2

가

(press roll)

30MPa

3

2.3

가 ()

400

가

가

200

2.4

2.5

(積分球)가

2.6

JIS L 1092(

)

(

·) · 2.2

·

2.7

,

가

·

2.8

1cm,

5cm,

5cm/min

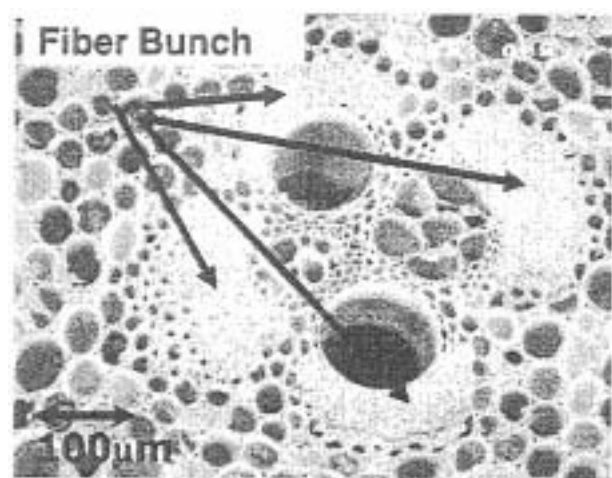
·

3.

3.1

,

< 1>.



< 1>

(SEM

)

(孟宗竹), (眞竹) (笹) ,

,

< < .

,

가 가 가 .

3.2

15 μ m 가 , 5~25 μ m

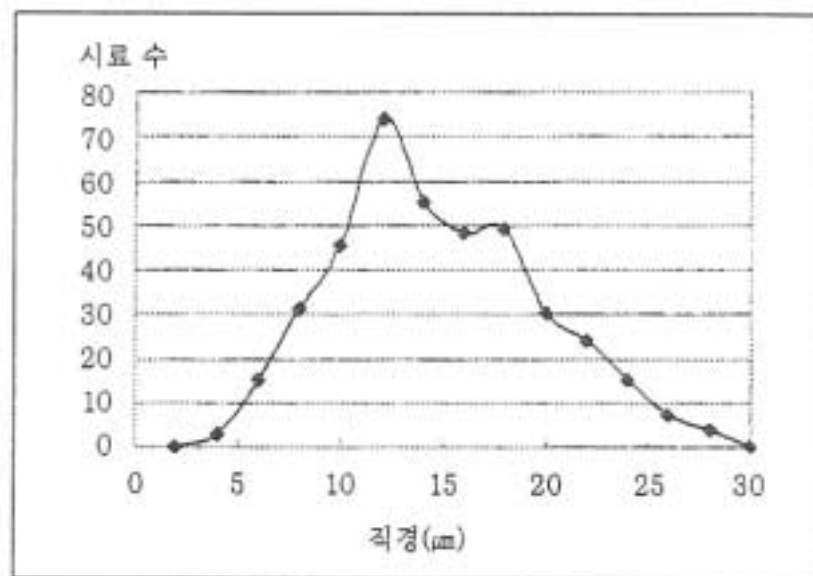
< 2> , 1.8 mm

<

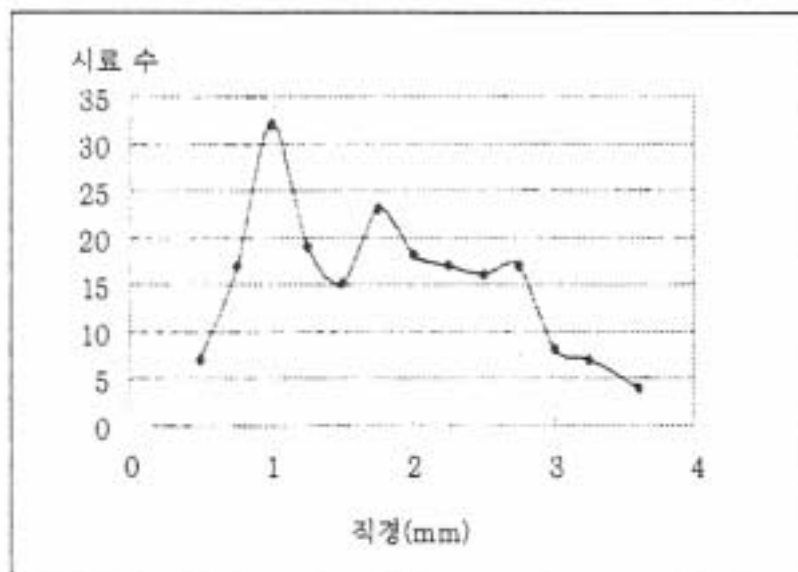
3> 가

, (lumen)

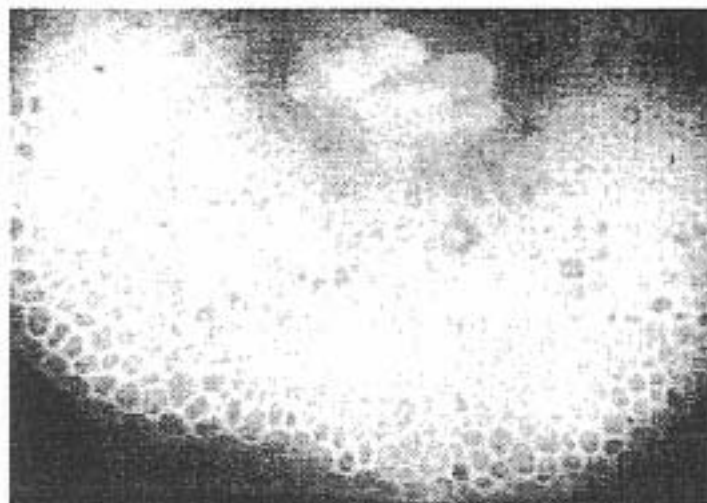
가 < 4>.



< 2>



< 3>



< 4> ()

3.3

(1.8mm)

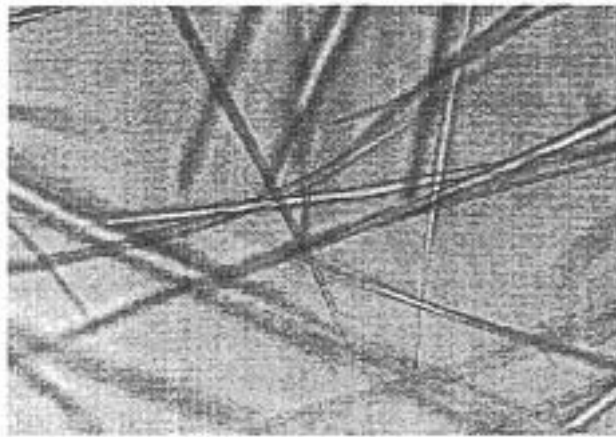
< 5>

(俵型)

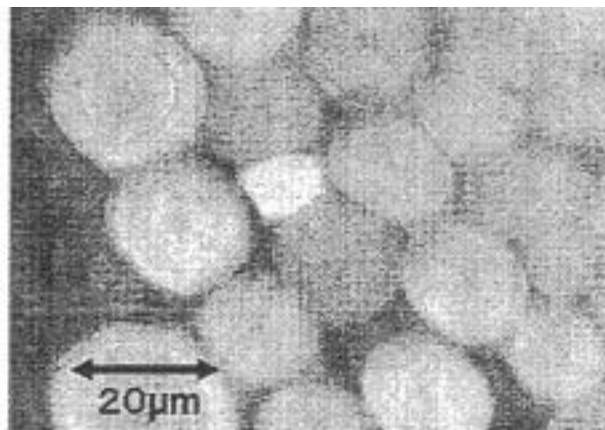
()

,

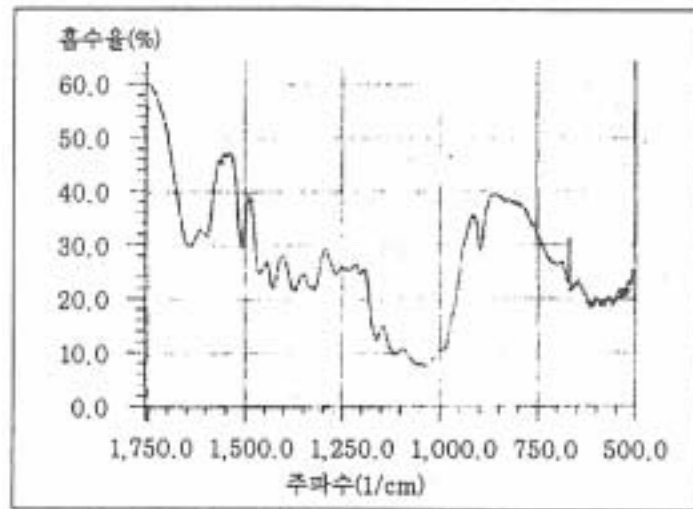
가 < 6>



< 5>



< 6> 가



< 7> FT-IR

(成竹)

, 가 , 가

.

3.4

< 7> . 1,740, 1,600, 1,505, 1,460, 1,250 (cm⁻¹) , , , ,

, , ,

, 가 . ,

가

, 가

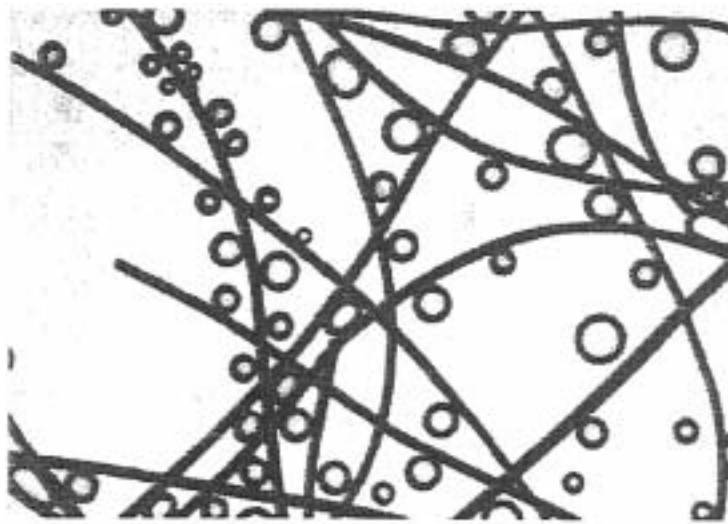
.

, .

3.5

가 , .

• < 8>.



< 8> .

3.6

가 , , 3

, 0.3 mm < 1>.

< 1>

	(g/m ²)	(N)
	70.4	40.3
	49.9	8.2
	35.8	0.8

가 , 가 .

> > 가

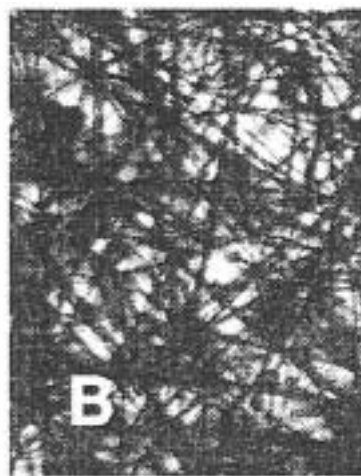
가 . ,

50 가 .

가 가 , ,

가

< 9>.

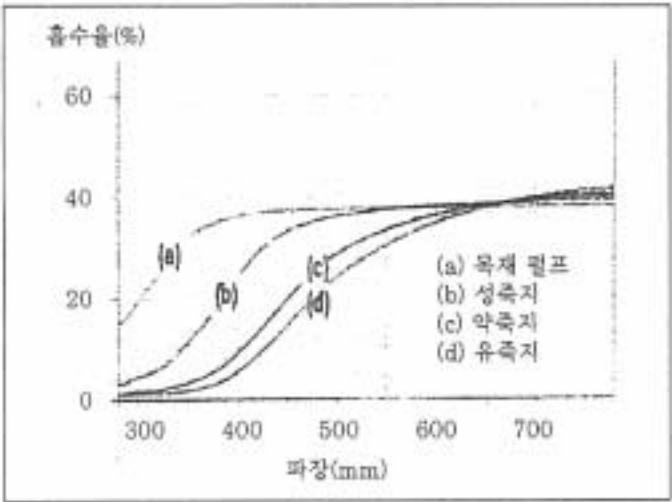


< 9>

; (A) , (B)

3.7

4 ()
< 10> ,
(400~280nm) 가
.
,
가 .



< 10>

3.8

가 ,
.
.
-0.2 . 가
가 (2.2) .

4.

가

.

.

,

.

,

, 가

.

. ,

.