

가

1.

가

.

.

(shifting)

.

(cling)

가 .

가 ,

.

,

,

.

.

가 .

,

가

.

2.

가

Zinser 351C3

.

ITV

.

< 1>

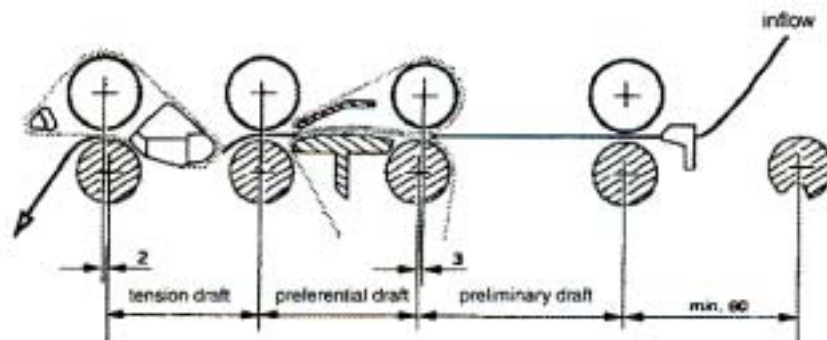
, < 2>

.

,
 (AUV) 1 2
 ()
 () 가 .



< 1> (Zinser 351C3)



< 2>

$n_{AUV\ 2} > n_{AUV\ 1}$ ()

$n_{AUV\ 2} < n_{AUV\ 1}$ ()

-8%~+8%

·

-
- ()
- , ,
- ()

가 가 .

ITV 가 ,

,

가

(bundling) 가 .

,

가 ,

.

가

,

가 가

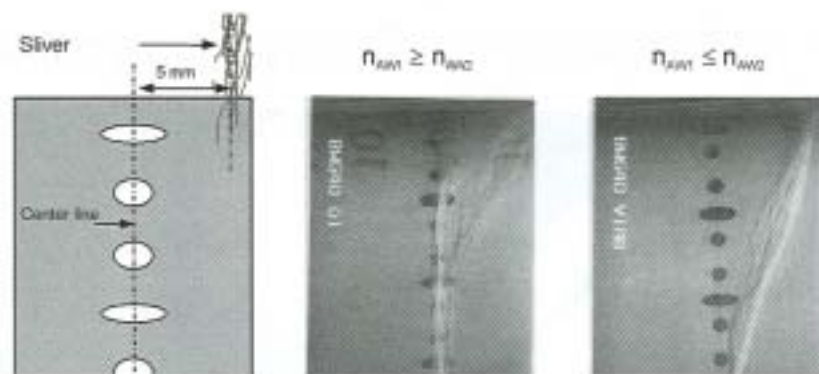
‘ (bundling ability)’ . 가

,

.

,

< 3>.



< 3>

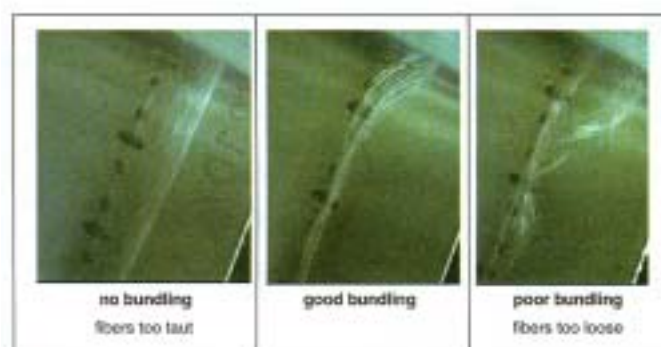
가

,
=

(willingness to bunch)

< 4>

,
가
가 가



< 4>

가 , 30m/sec
Nm 60(Ne 35.5), α_m 110 .

가 ,
.
 ,
.
 , 가
.
 Nm 60 ,

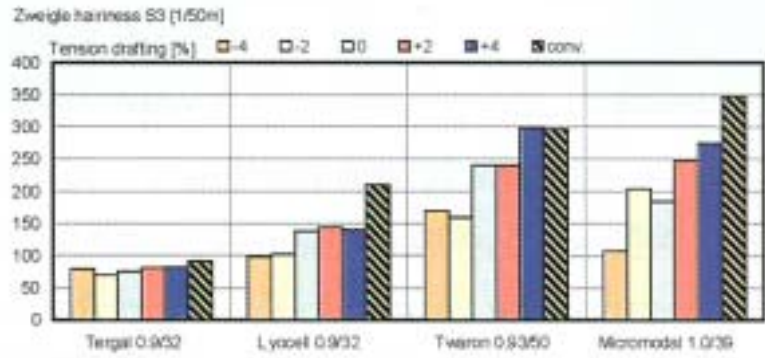
- : 160~185 (0.9~1.0dtex)
- : 120~130 (1.3~1.4dtex)
- : 75~100 (1.7~2.2dtex)

3.

,
 , < 5> < 6>
.

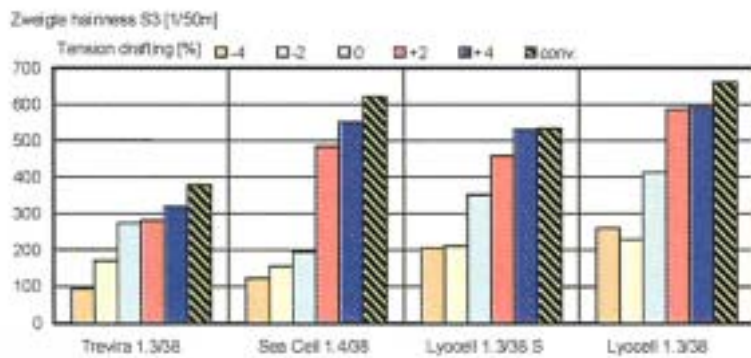
(FIQ)가 160~185
가 Tergal 가 . 가
(FIQ)가 120~130
(1.3~1.4dtex) . < 6>
, Trevira (1.3dtex/38mm) Tergal
(0.9dtex/38mm)

1.7~2.2 dtex



< 5> Zweigle , S3

(Nm 60, α_m 110, 160~185 FIQ)



< 6> Zweigle , S3

(Nm 60, α_m 110, 120~130 FIQ)

:

(2~4%)가

(fly)

가 가

가 (strain)

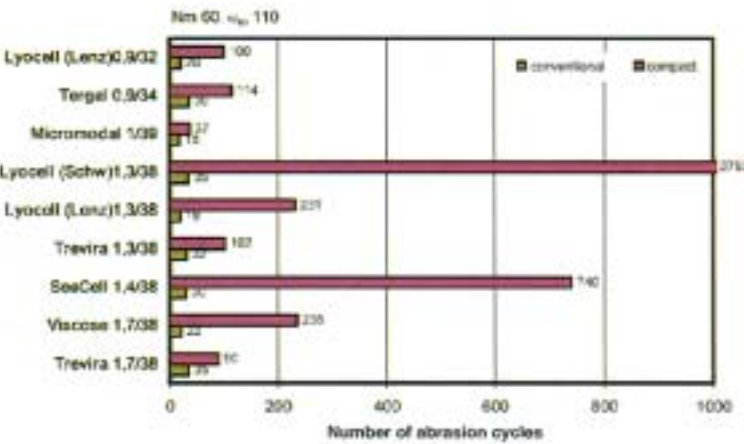
15

(slough)

< 7>

20~30

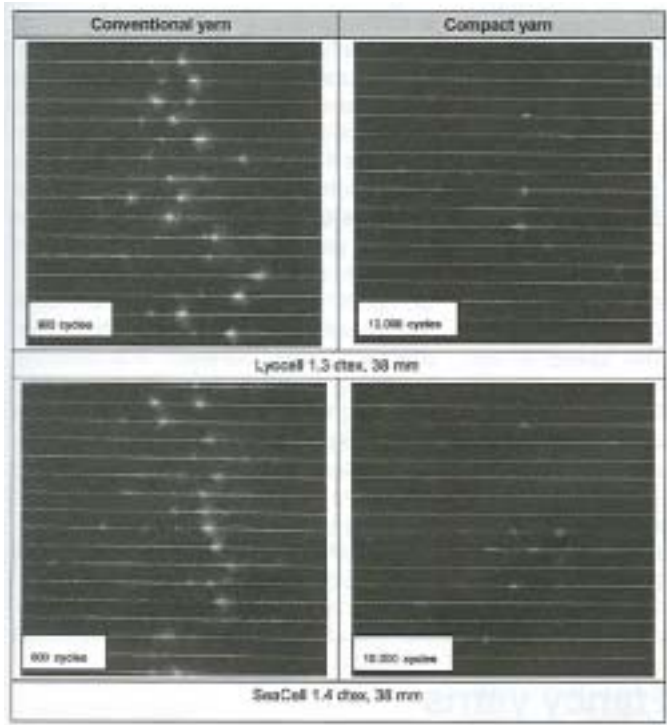
가



< 7>

,
 .
 가

< 8>. 10,000
 가 600 900



< 8> ()

가 . 가 ,

Staff

300m

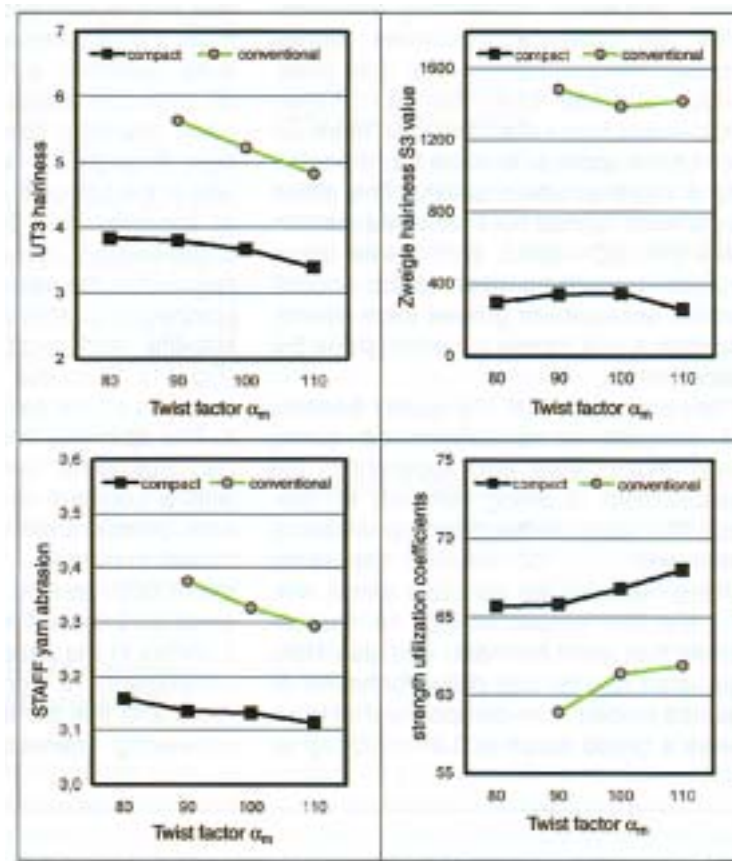
가 . < 9>

가

1.3dtex/38mm

Nm 85, α_m 80~110

) 3~4



< 9>

: α_m 80

UT3

α_m 110

. Zweigle

1mm

2mm

가

. , 3 mm

.

. , Trevira CS

1.7dtex/38mm

Nm 65, α_m 80~100

, . ,

30% .

가 가

(dropped stitches) .

, ,

. (pill)

, .

,

. DIN EN ISO 12945, part 2

. 1 5 (1

= , 5 =).

가 . α_m 100

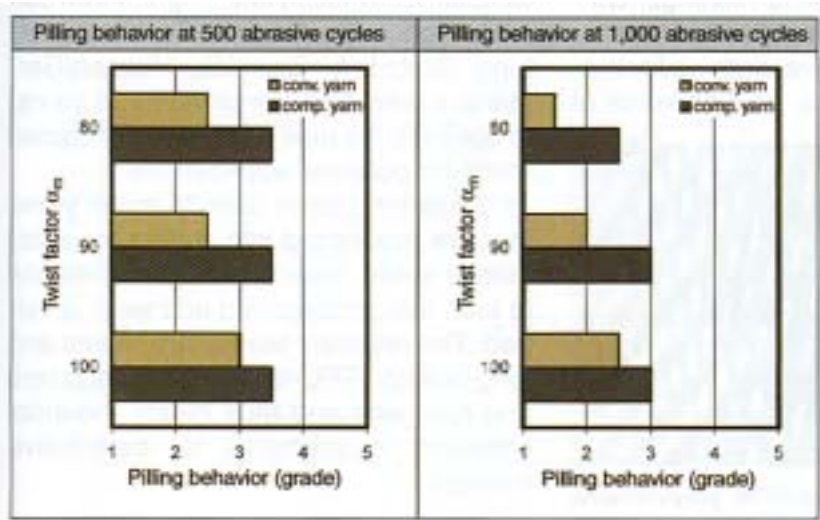
α_m 80 . < 10>

, 500 1,000

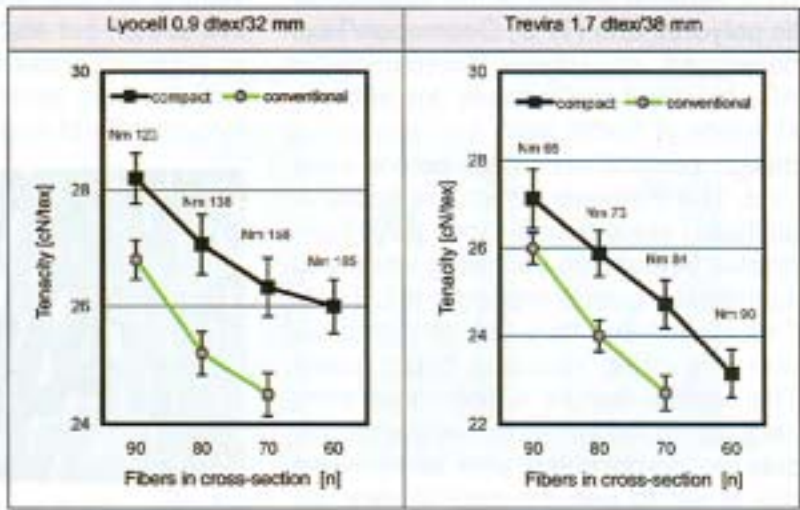
0.5~1.0 .

가

가



< 10>



< 11>

Trevira , Nm 65 ,
150 T/m . ,

, 35% 가 . ,
 가 .
 , 가 가
 가 가 .
 Trevira (1.7dtex/38mm)
 ,
 Twaron .
 60 ,
 가 70 .<
 11>.
 .
 ,
 30m/sec, α_m 100, 1,000 . 50
 . ,
 2 cN/tex , 가 가
 (가).
 . (0.9dtex/32 mm) Nm 185
 26 cN/tex .

4.

,
 , 가
 . 가

.
 . 3 mm
 ,
 . ,
 α_m 80 α_m 110
 가 . 가 가 , 38%
 가 . Trevira
 6% 가 .
 . ,
 ,
 가 . ,
 2cN/tex . ♣

(Improved characteristics of man-made fiber yarns through compact spinning :
 Melliand International, 2004, No. 4)