

Lea

가

Lea

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가

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F. T. Peirce가 Fibre

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J. F.

Bogdan

가

가, 4

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$$S = k \left[\frac{P}{C} [1 - 10^{-0.13(M-T)^2}] - F \right] \dots\dots\dots (1)$$

, S= Lea

k=

$$\colon \frac{160}{1 + BM^2}$$

B(Filer Obliquity Parameter)=가

가

- (Strength-Twist Curve)

가

Twist Cohesion (Calculated Twist

Cohesion Curve)

Bulky가

.()

F(Drafting Parameter)=

가

. F

,

T(Ineffective Twist Parameter)=Twist Multiplier Scale

Twist Cohesion

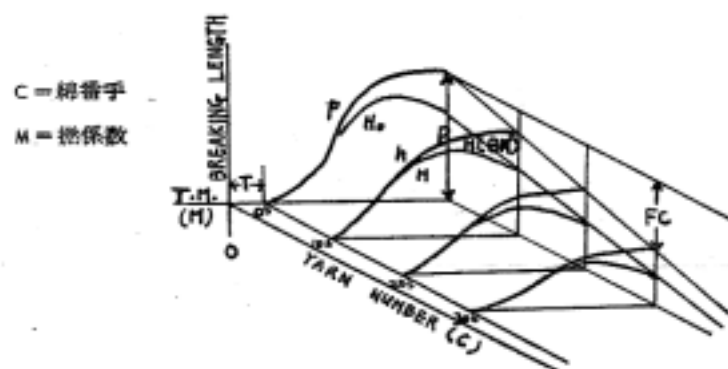
+ -

. Crimp 가

P(Intrinsic Strength Parameter)=가

Lea

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Geometrical Significance of the Four Parameters

(1) 4 가 P

Lot

P Cotton Quality Q(Quality Index)

가 가

B 0.014

k

$$k = \frac{160}{1 + 0.014M^2} \dots \dots \dots (2) \text{ 가 } .$$

T 가 () () (

) ()

Quality Index Q가 가 . T Q

$$T = 4.5 - 0.15Q \dots \dots \dots (3) \quad (\text{Yarn Tenacity})$$

가

가

가 가 가 가

Draft F Q

$$F = \frac{2.1}{Q - 8} \dots \dots \dots (4) \text{ 가 } .$$

(1) (2), (3) (4) Card lea

$$S = \frac{160}{1 + 0.014M^2} \times \left\{ \frac{Q}{C} [1 - 10^{-0.13(M + 0.15Q - 4.5)^2}] - \frac{2.1}{Q - 8} \right\} \dots \dots \dots (5)$$

2 1

lea , .

Q, No. ,

Lea

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Comber Combing 1% 가

Card 0.8% 가 (J. F. bogdan) Comber

Table .

Bogdan

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1) Card

4.0 20's Lea 가 117Lbs

4.5 30's lea

T. M. 4.0 20's Lea 117Lbs Q. No. (Q. No.

23)

4.0 T. M.

Skein Break in Pounds

Q. No. Skein No.	18	19	20	21	22	23
6						
7						
8						
20						117

T. M. 4.5 30's Q.No.23 Lea

(72Lbs).

4.5 T. M.

Skein Break in Pounds

Q. No. Year n No.	18	19	20	21	22	23		36
6								
7								
8								
9								
...								
30						72		

, 4.0.T.M. Lea 117Lbs, 20's 4.5T.M. 30's

Lea 72Lbs가 .

2) Comber

T.M.3.8 39's Comber Lea 가 66Lbs T.M.4.5 50's

Comber

3.8T. M. 40's Card Lea $= \frac{66}{1.1} = 60(\text{Lbs})(1.1$ Comber Card

10% (J.F.Bogdan) Card)

Q. No.=25.0

Q=25, T.M. =4.5, 50's Card → 43(Lbs)

43Lbs Comber $43 \times 1.1 = 47.3(\text{Lbs})$

1. F. T. Peirce; N. Carolina College, School of Textiles Director of Research

2. J. F. Bogden; N. Carolina College, School of Textile Director of Processing

Research

3. ; 6's~50's, 2.5~5.5, Q. No. 18~36

(5) Bogdan Lea (

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