

(2)

3. Water Jet Loom

3.1 Sizing(가)

WJL(Water Jet Loom) 가 Sizing

. Sizing

, WJL 가 .

Creel Warpers Beam Tension Control 微底 Filament
, (.)

Acryl , (가 .)

Sizing . (Acryl , .)

, 가 가 Sizing
Waxing .

maker Non-sizing, Non-twisttk가

. Sizing Machine Size-Box .

			pH		
日本合成	Gosesize 480	Acryl	8.0~9.0	50%	Nylon Polyester
	Gosesize LW17	Acryl	8.0~9.0	20%	Polyester
互應化廓	Plasize J-6	Acryl Ammonium	7.2~7.5	20%	Polyester Polyester가
	Plasize J-7	Acryl Ammonium	7.2~7.5	25%	Nylon
	Plasize N-160	Acryl Ammonium	7.2~7.5	30%	Nylon Polyester
	Plasize 204	Acryl Ammonium	7.2~7.5	25%	
松本油脂	Marpozol W-11	Acryl Ammonium	8.5	50%	Polyester
	Marpozol W1-K	Acryl Ammonium	8.5	40%	Polyester Filament가
	Marpozol W-121	Acryl Ammonium	8.5		Polyester
	Marpozol TS412-A	Acryl Ammonium	8.5	40%	Nylon Polyester

3.2 가

1) (Fat), (Fatty Oil),

,

Glycerin Ester

,

.

.

2) (Alcohol)

1 OH . 1
OH 1 1가 , 2 2가 .
3가 .

3) (Higher Fatty Alcohol)

C₈
.

4)

50~150 Wax가
.
, (가)
.

5) 酸價(Acid Value : A. V)

酸價 1g

苛性加里(KOH) mg .

6) 沃素價(Iodine Value : I. V)

沃素價 , 鹽化沃素(ICI) 鹽化臭素(BrCl)

沃素(I) .

7) (Melting Point)

가

,

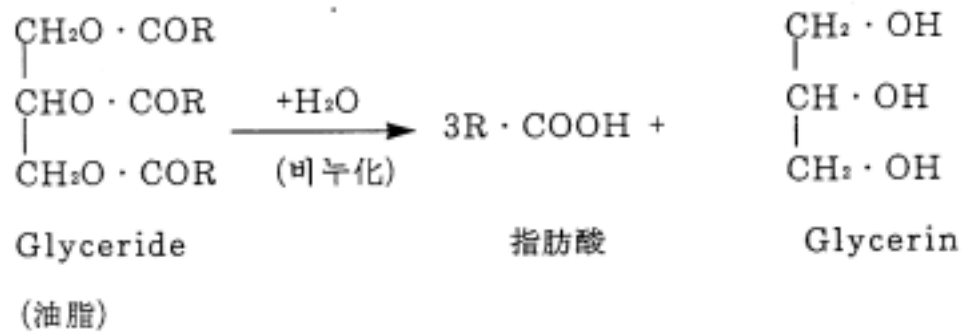
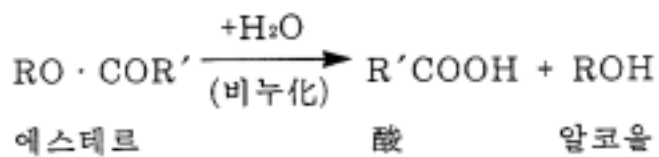
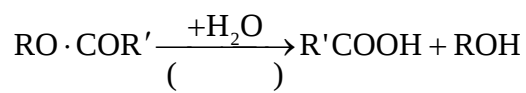
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8) (saponification)

가

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脂肪酸

9) (Polymerization)

(Functional group)

,

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(Co-Polymerization) .

가 (Addition

Polymerization), (Condensation Polymerization)

.

10) (Polymerization Degree)

(Monomer)

PVA $\begin{array}{c} -\text{CH}-\text{CH}_2- \\ | \\ \text{OH} \end{array}$ 가 2,300

가

2,000 .

11) , ()

PVA

, 가 .

PVA Polyvinyl Acetate , PVA Ester

, Ester

.

80%, 90% .

12) , (Saponifiable or Unsaponifiable Matter)

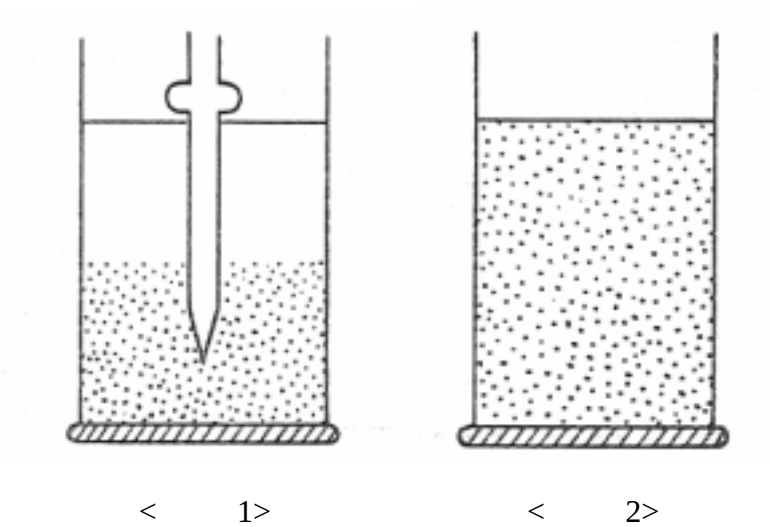
가 가 가 ()

Ester , 가

Ester 가 .
 , , .

13) (Colloid) T. Graham .

< 1>
가
< 2> ()
가 .



Garham 가

Colloid

Colloid

.

가 가

Colloid

, Colloid

가

0.1μ

$1m \mu$

Colloid

.

$(1m \mu = 0.0011 \mu = 10^{-7}cm = 10A^{\circ} : 1 A^{\circ} = 10^{-8}cm)$

$1m \mu$ 가

Colloid

.

, , ,

Colloid

.

14) (Geration)

Colloid 가

Colloid ,

Sol .

가

가

가 가 .

가 .

, . ,

, (Gel) . ,

가

가

.

15) (Viscosity)

. 가

T

Q

가

P

η ()가

L

.

Poiseuille's law()

$$\frac{Q}{t} = \frac{1}{\eta} \cdot \frac{\pi r^4}{8L} \cdot P$$

.

η

.

Poise()

.

16) (Swelling)

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.

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17) Amylose, Amylopectine, Dextrine

Amylose Amylopectine

.

Amylose

Amylopectine

煮沸

Amylose

Amylopectine

Amylose

Amylopectine

枝分

18)

가

가

가

75~80

가

Amylose

가

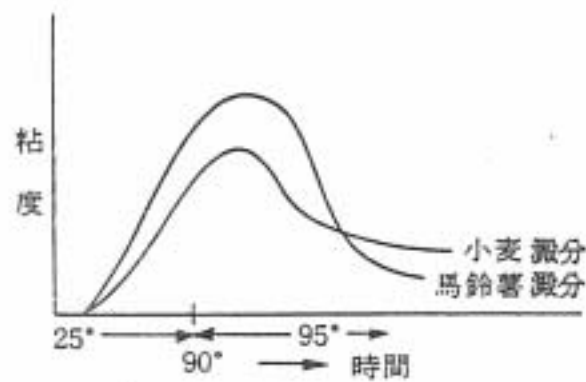
가

19)

< 3>

Amylo-

graph



< 3>

8~10%

95

1.5

.

90

Amylose

Amylopectine

.

20) (Dispersion)

(.) (,)가

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