

Polyester (糊劑) (1)

1. 가

1.1

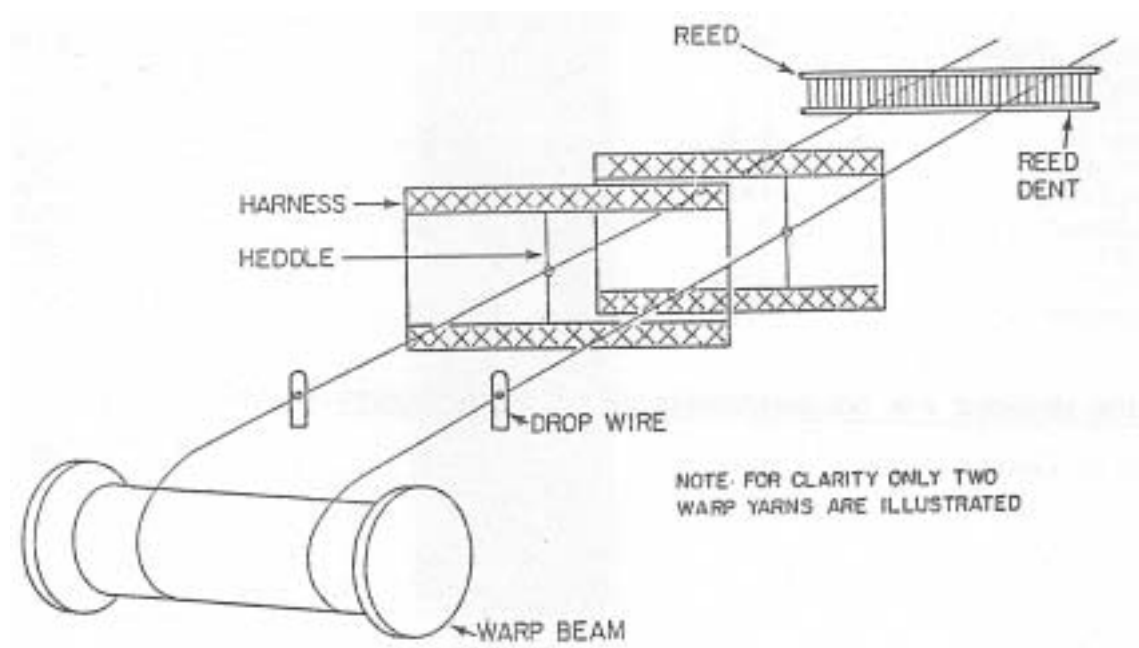
drop wire, ,

take-up, ,

가

가

가 .



< 1>

1.2 가

가

가

,

가

.

- 1)
- 2)
- 3)
- 4)
- 5)

가 .

1.3

가

가 .

- 1) : 가 .
- 2) : .
- 3) : 가 .
- 4) : 가 .
- 5) : 가 .
- 6) : .
- 7) : 가

blocking

.

8) Desizing : Desizing , ,

.

1.4

.

1) :

.

2) 가 : 가 .

3)

4) 가 .

5) 가 .

6) .

1.5

, ,

< 1> . P/C

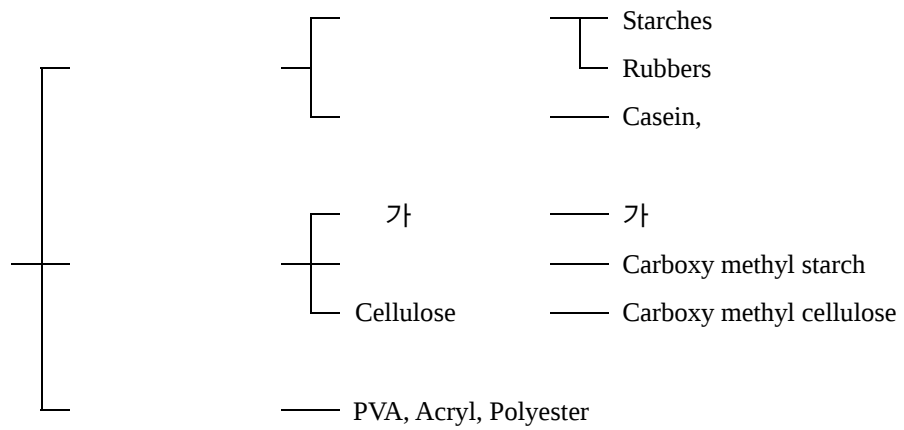
가 .

PVA Acryl 가 Polyester

Acryl PVA

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< 1>



1.6 가

(Size Pick-up, SPU) 가 가 Brittle

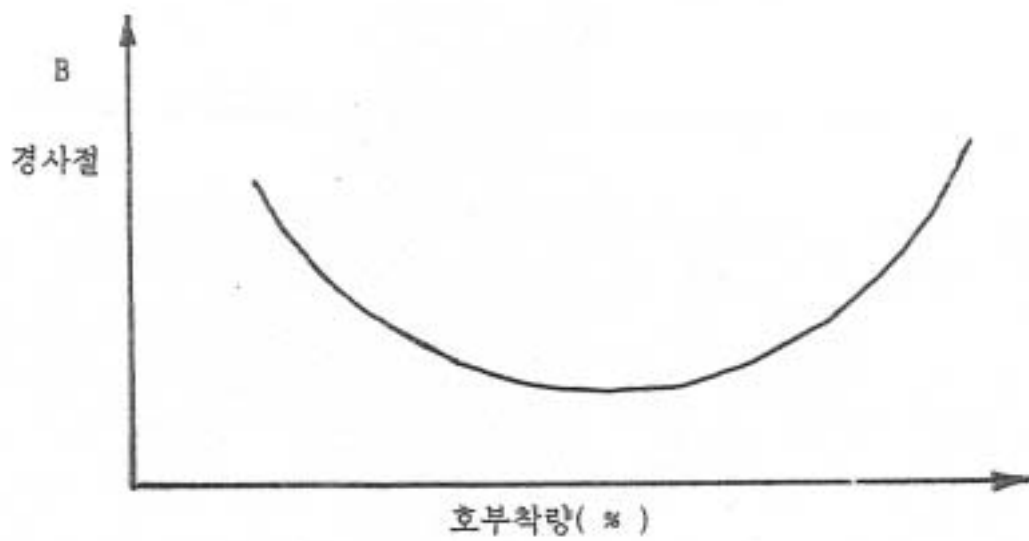
가 가

가 .

Filament 가

Polyester 3~5%, Acryl 7~10%, Acryl +

PVA 10~18% .



2. Filament Polyester

-- SKYBON SK-W 100 Polyester --

2.1 Filament

Filament 가 mono-filament oiling

mono-filament가 (毛羽)가 .

Filament 가 .

1) : 가 mono-filament .

2) : Filament .

3) : Filament oil
가 가 가 .
:

(Bleeding Out) .



2.2 Filament

Filament PVA Acryl Acryl
Polyester 가
가 .

1) PVA : .

2) Acryl : 가 .

3) Polyester : .

2.3 Filament Polyester

Filament Polyester Chain
-SO₃Na (Water Dispersible) Polyester Maker <
2> .

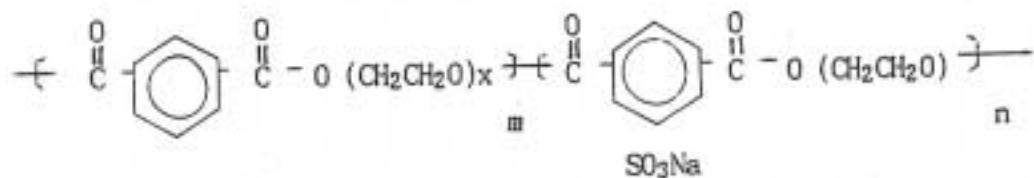
< 2> Filament Polyester

	(SKI)	SKYBON SK-W 100	
	DIC	DIC SKZE WR SERIES	
	EASTMAN KODAK SEYDEL INT.	WD SIZE SICO LB 100	
	RHONE-POULENC	GEROL PS-20, 30	

2.4 “SKYBON SK-W 100” Polyester

Chain -SO₃Na Polyester
, , 가가 ,

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X = 1 or 2

M, n =

< >

		SKYBON SKW-100
Intrinsic viscosity	dl/g	Light Amber Pellet 0.435~0.515 10,000~15,000 40~46
Softening point		152~162
Acid value	KOH mg/g	3~5
Hydroxyl value	KOH mg/g	10~15
25% Solution	cps	120
25% solution pH		3.7~4.3

(1) Ortho-chloro phenol at 35

(4) Ring & Ball

(2) GPC

(5) KOH titration

(3) DSC

(6) Brookfield DV-II

< >

1) Shuttle

2) Water-jet

3) Air-jet

4) Rapier

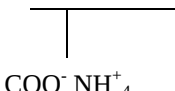
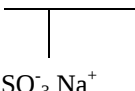
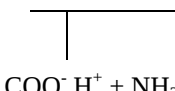
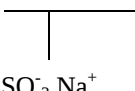
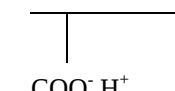
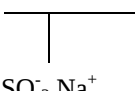
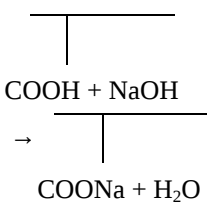
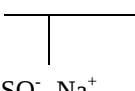
가

2.5 “SKYBON SK-W 100” Sizing Mechanism

< 3> Acryl 가 -COO⁻NH₄⁺ 가 NH₃가 Desizing 가

“SKYBON SK-W 100” 75~80 L 가 .

< 3> SKYBON SK-W 100 Acryl Sizing Mechanism

	Acryl (WJL)	SKYBON SK-W 100	
	 COO ⁻ NH ₄ ⁺	 SO ₃ ⁻ Na ⁺	* SK-2 100 가 .
	 COO ⁻ H ⁺ + NH ₃ ↑	 SO ₃ ⁻ Na ⁺	* Acryl Cylinder Chamber .
	 COO ⁻ H ⁺	 SO ₃ ⁻ Na ⁺	
	 COOH + NaOH → COONa + H ₂ O	 SO ₃ ⁻ Na ⁺	