

## Polyester (糊劑) (2)

### 2.6 “SKYBON SK-W 100”

“SKYBON SK-W 100” Polyester

Acryl, PVA

1)

2)

3)

4)

5) ( )

6)

7)

8)

9)

10) Desizing

#### 2.6.1

PVA Cooking

가 가

가 .

#### 2.6.2

PER Filament 가 가

Polyester

< 5> SKYBON SK-W 100

( : kg f/inch)

| ( )         | 120  | 130  | 140  | 150  | 160  |
|-------------|------|------|------|------|------|
| Acryl       | 0.16 | 0.18 | 0.21 | 0.27 | 0.26 |
| Acryl + PVA | 0.07 | 0.10 | 0.10 | 0.08 | 0.10 |
| Polyester   | 0.23 | 0.26 | 0.38 | 0.41 | 0.51 |

: PET Film 25%

75 μm

Coating P/C 50/50 3kgf/cm<sup>2</sup> x 30sec U · T · M

T-Peel .

### 2.6.3

가

.

< 6>

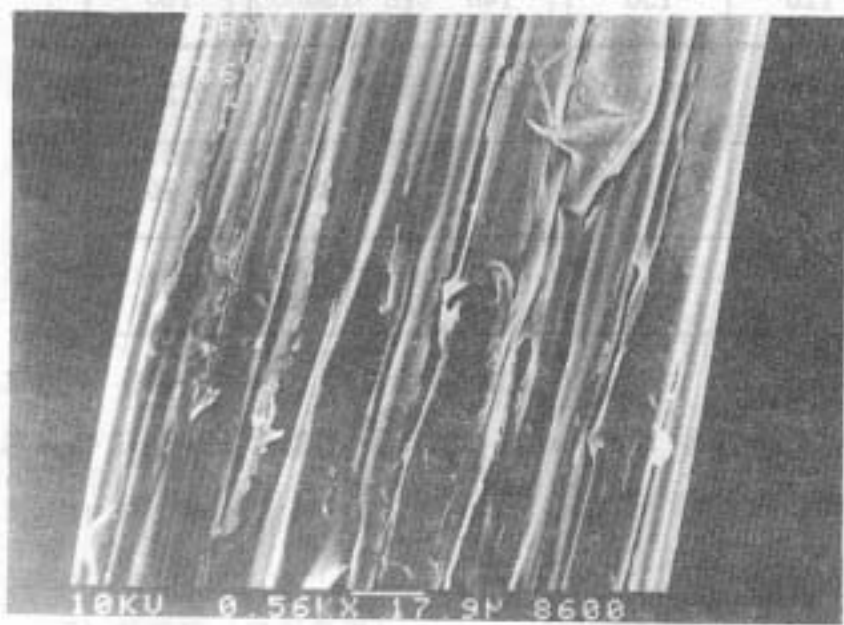
|         | 50 De'e   |       |          | 75 D'e    |       |          |
|---------|-----------|-------|----------|-----------|-------|----------|
|         | Acryl/PVA | Acryl | SK-W 100 | Acryl/PVA | Acryl | SK-W 100 |
| (g/D'e) | 4.68      | 4.65  | 4.98     | 4.68      | 4.41  | 4.77     |
| (%)     | 26.4      | 28.6  | 30.4     | 26.5      | 27.3  | 30.1     |
| * ( )   | 508       | 511   | 698      | 480       | 490   | 591      |

\*TM Tester

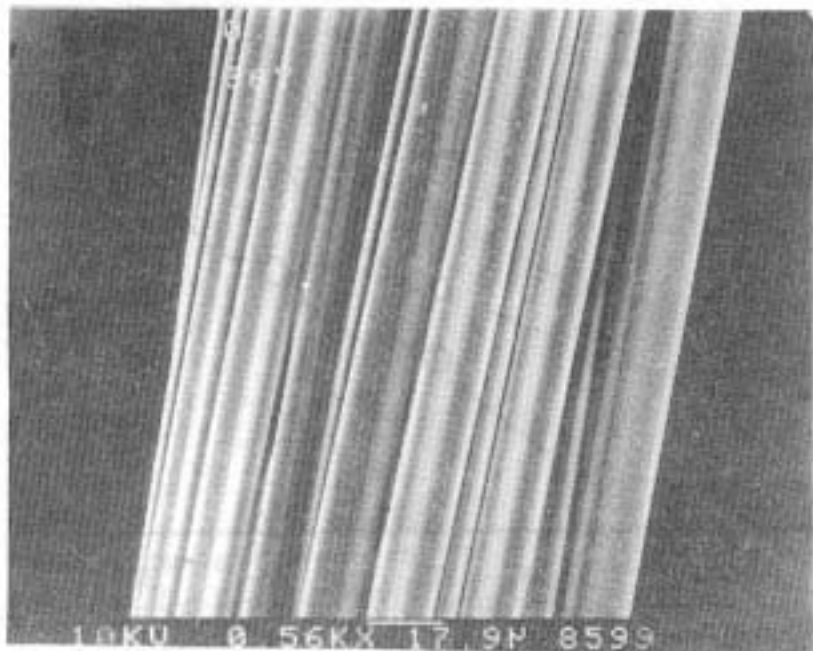
### 2.6.4

“SKYBON SK-W 100”

PVA Acryl



PVA + Acryl



SKYBON SK-W100

< 4> “SKYBON SK-W 100” PVA/Acryl 가

2.6.5

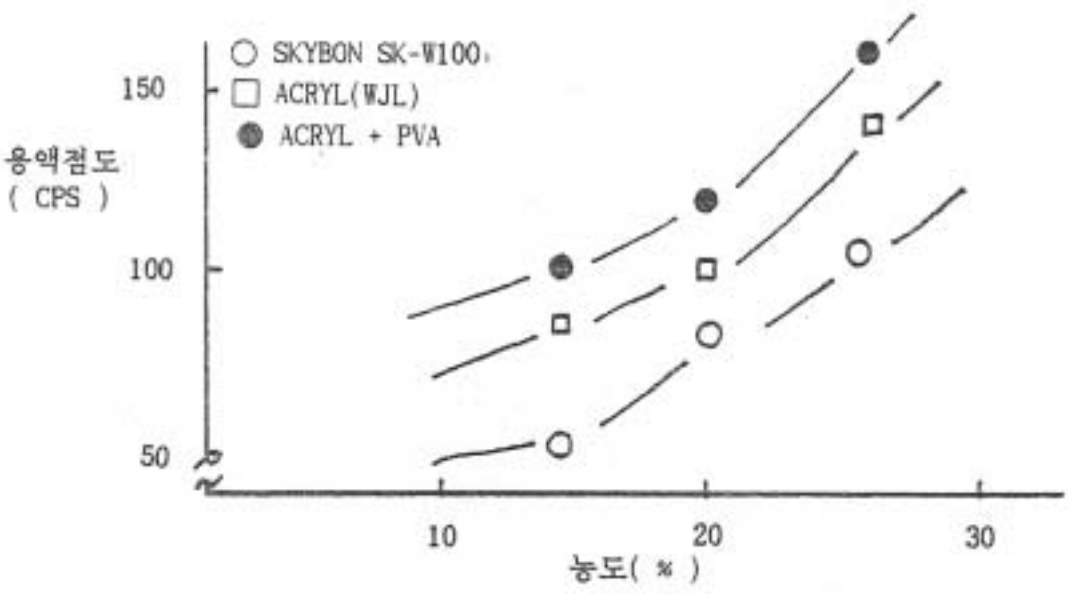
“SKYBON SK-W 100” 가 PVA/Acryl SPU  
가 .

< 7> SKYBON SK-W 100 PVA/Acryl SPU

| Resin           | SPU (%)   |
|-----------------|-----------|
| SKYBON SK-W 100 | 3.5 ~ 5.5 |
| Acryl           | 7 ~ 15    |

2.6.6

< 5> “SKYBON SK-W 100” 가 Acryl PVA  
가



< 5> SKYBON SK-W 100 PVA, ACRYL

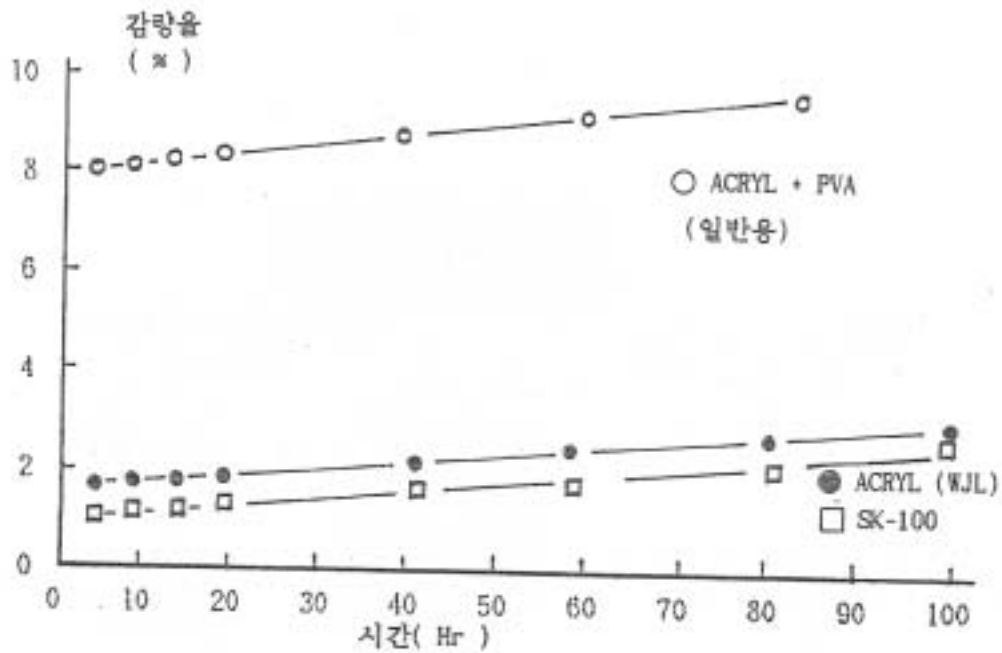
2.6.7

< 8> < 6>

Water jet loom .

< 8> Film

|                 |   | 25 x 75% | 30 x 80% |          |
|-----------------|---|----------|----------|----------|
| SKYBON SK-W 100 |   | 2.79     | 3.12     | /<br>4/1 |
|                 | + | 3.70     | 3.83     |          |
| Acryl (WJL)     |   | 3.40     | 3.57     | /<br>8/1 |
|                 | + | 3.52     | 3.80     |          |
| (L.M.D)         |   | 3.40     | 3.98     |          |
|                 | + | 9.83     | 10.23    |          |
|                 | + | 4.35     | 4.62     |          |



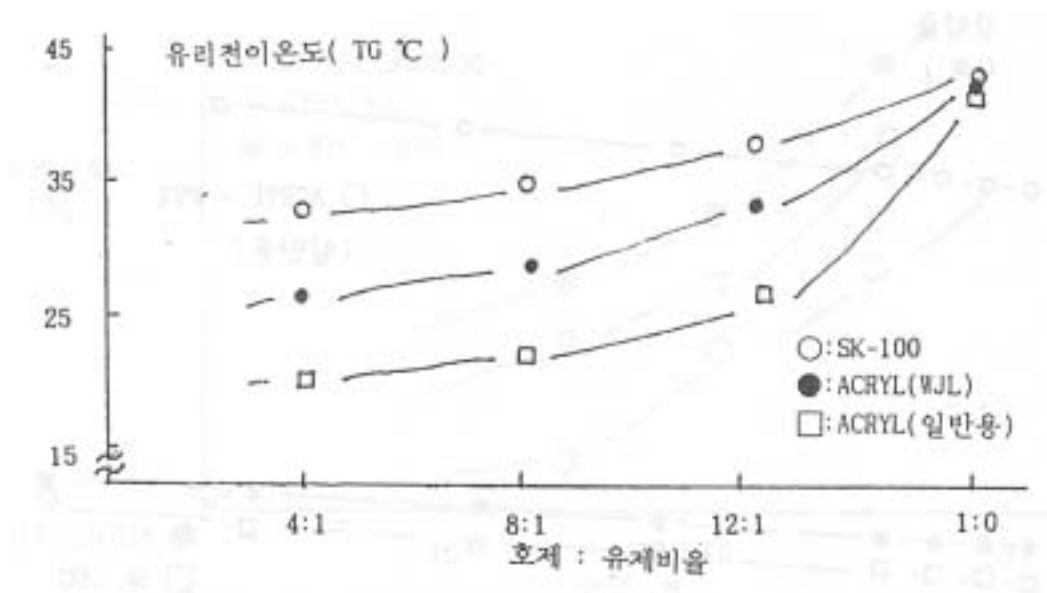
< 6> “SKYBON SK-W 100” PVA/Acryl

\* : PET Film

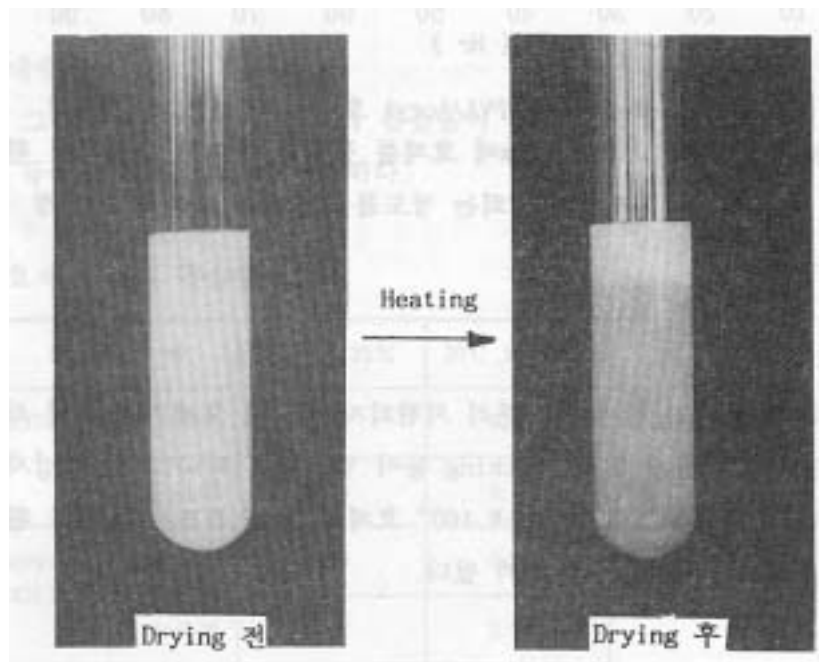
가

( 20 )

2.6.8

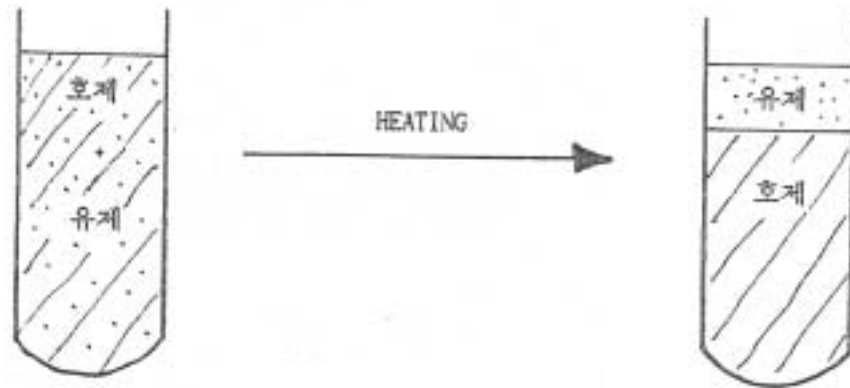


< 7> 가



< 8> “SKYBON SK-W 100” Test

\* Test : blending



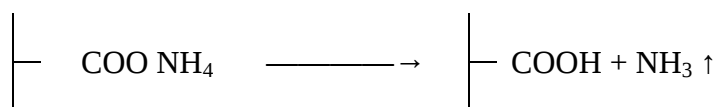
< 9> Test

가 가  
가 Tg가 blocking (< 6>  
가 ) “SKYBON SK-W 100”  
가 가 .

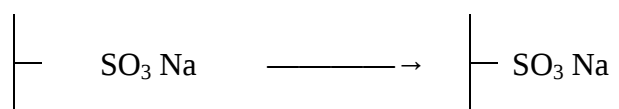
2.6.9

Acryl ammonia gas monomer  
가 “SKYBON SK-W 100” Polyester 가  
가

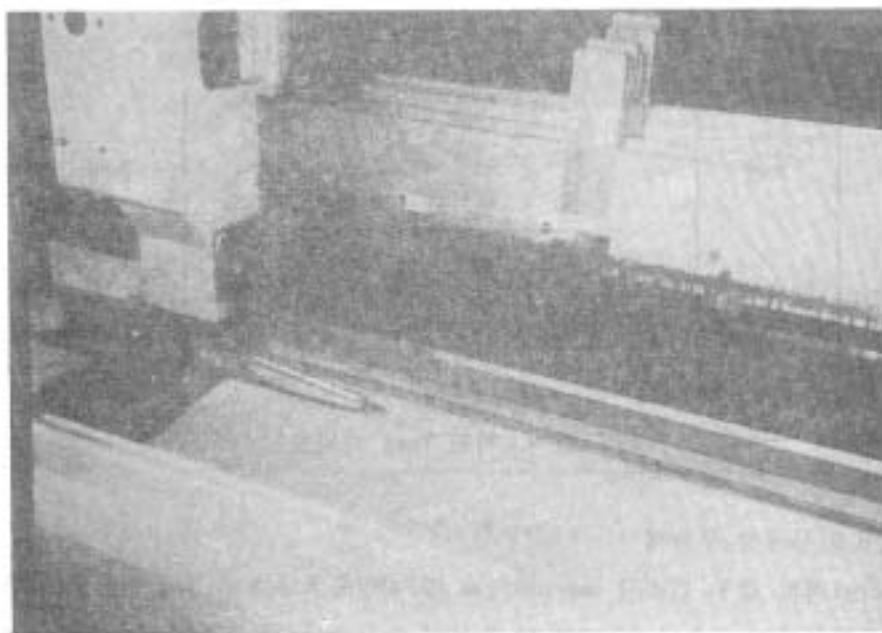
<Acryl>



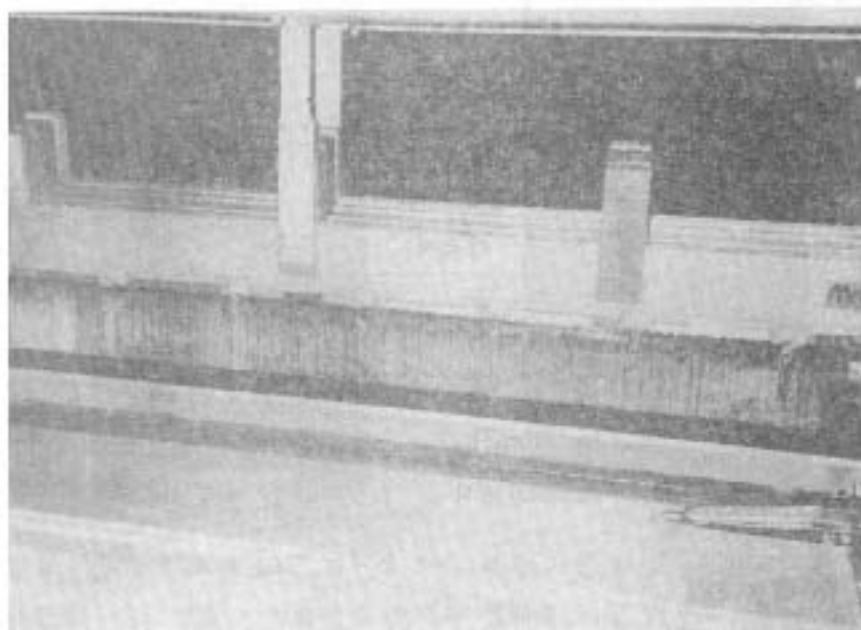
<SKYBON SK-W 100>



2.6.10



SKYBON SK-W 100



PVA / Acryl

< 10> SKYBON SK-W 100 PVA/Acryl

“SKYBON SK-W 100” PVA acryl , , ,  
가 .

## 2.7 “SKYBON SK-W 100” Sizing desizing

### 2.7.1 Sizing

Sizing 가

< 9> SKYBON SK-W 100 Sizing

|                 | SB 50 D’e   | SB 75 D’e   |
|-----------------|-------------|-------------|
| (糊純分)           | 16%         | 15%         |
| S.P.U           | 4.5%        | 4.3%        |
| Speed           | 130 yds/min | 130 yds/min |
| Sq R/O          | 1.0 kg/cm   | 1.0 kg/cm   |
| 1mm R/O         | 1.5 kg/cm   | 1 kg/cm     |
| Draft           | -1%         | -1.28%      |
| Cavity Box Temp | 25 ~30      | 25 ~30      |
| Chamber Temp    | 140         | 135         |
| Cylinder Temp   | 120         | 120         |

### 2.7.2 Desizing

Desizing bath pH 9~10 desizing 가

< 10> pH

Desizing Test

| NO          | 1                                      | 2      | 3      | 4      | 5      |
|-------------|----------------------------------------|--------|--------|--------|--------|
| pH          | 8.5                                    | 9      | 9.5    | 10     | 10.5   |
| (g)         | 4.9409                                 | 5.5444 | 5.0965 | 5.1922 | 5.1506 |
| (g)         | 4.7140                                 | 5.3060 | 4.8550 | 4.9520 | 4.9202 |
| (g)(%)      | 4.5%                                   | 4.3%   | 4.7%   | 4.6%   | 4.4%   |
| Cation Test | ○                                      |        |        | ○      | ○      |
|             | Na <sub>2</sub> CO <sub>3</sub> : 4g/l |        |        |        |        |

## 2.8 SKYBON SK-W 100

SKYBON SK-W 100 Polyester

Acryl

PVA

가

### 2.8.1 Size Pick-up

< 11>

< 11>

|                | Acryl + PVA | Acryl  | Polyester |
|----------------|-------------|--------|-----------|
|                | 13 ~ 18     |        | 3.5 ~ 4.5 |
| Water Jer Loom |             | 7 ~ 10 | 3.0 ~ 4.0 |

|              |         |   |           |
|--------------|---------|---|-----------|
| Air Jet Loom | 10 ~ 12 | . | 4.0 ~ 5.0 |
|--------------|---------|---|-----------|

### 2.8.2

SKYBON SK-W 100

Water-jet 100 1 가 < 12> .

Test

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< 12> Test

| → |               | ACRYL/PVA | SKYBON SKW-100 |
|---|---------------|-----------|----------------|
|   | (%)           | 87.3      | 89.8           |
|   | (x 100Yds/Yr) | 7.764     | 7.958          |
| * | A             | 86.0      | 90.2           |
|   | B             | 4.5       | 4.1            |
|   | C             | 8.1       | 4.8            |
|   | D             | 1.4       | 0.9            |

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## 2.9

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### 2.9.1

가

## Roller

filtering S

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## 가

가

SKYBON SK-W 100 Polyester

(2) Acryl

(3) , , ,

가

(4)

(5) .