

·

1. (Peach Skin)

(1)

·

Buffing

· 가 2 polymer

· 가 가

(2)

· (0.3De)

· (0.3~0.7De)

·

· Airful

(3)

· Soft Touch

· Warm

· ,

· Volume

(4)



<그림-1>



<그림-2>

2.

(1) (易染性)

· 가 , (120)
· ,

·
· Cation 가
loose

가 .

- CD

· CD 가
가 .

· : [] “VIXY

(2)

· BR, SD, FD

(TiO_2) .

·
·
· .

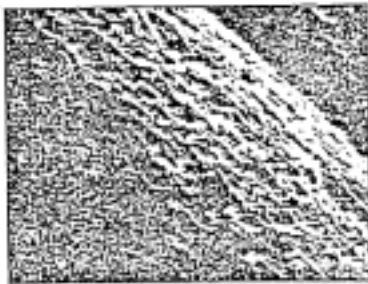
· : [] “MIRACOSMO”

(3)

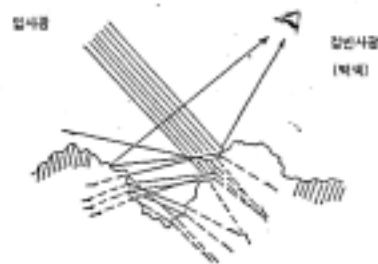
· ,
· .

1 μ m

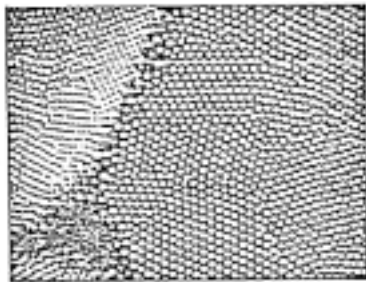
: [] “SN2000”



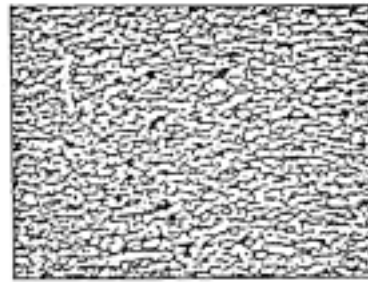
마이크로 크레이터 섬유
<그림-3>



마이크로 크레이터 섬유의 광학특성
<그림-4>



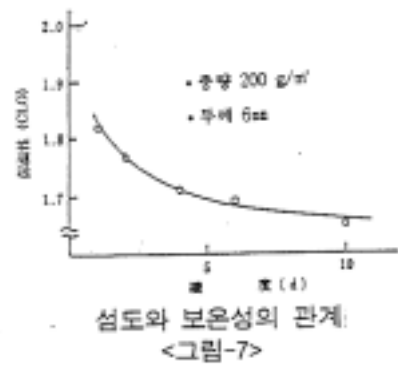
나비의 각막
<그림-5>



블랙매스의 섬유표면
<그림-6>

1. .

(1)



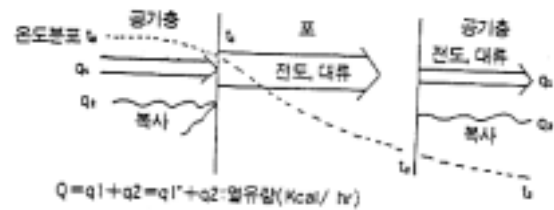
(2)

. : ,

. : (1/10) 가

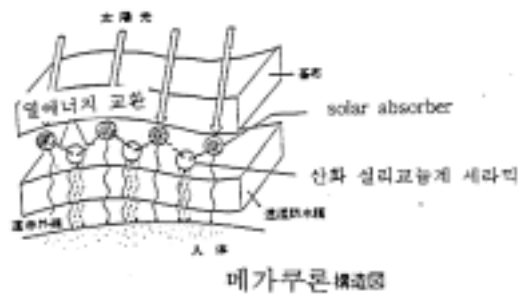
< 1>

	1
	9
	27
	11
	10
	7
	25
	9800
	18000
	700

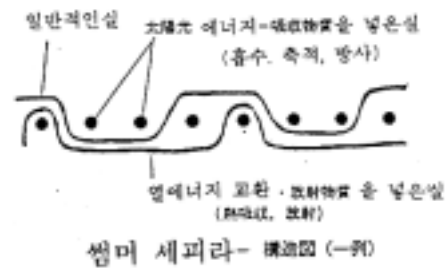


<그림-8>

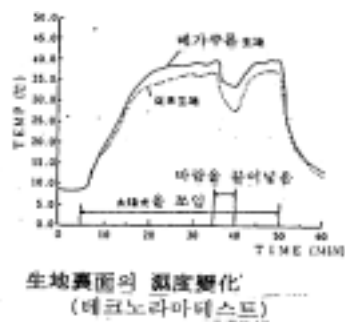
(3)



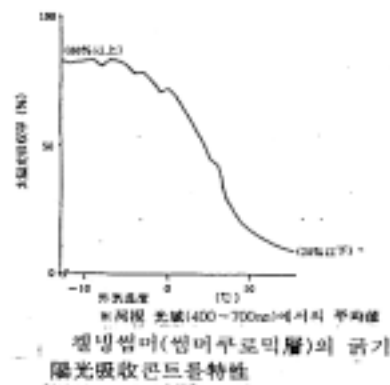
<그림-9>



<그림-10>



<그림-11>



<그림-12>

2.

(1)

가

.

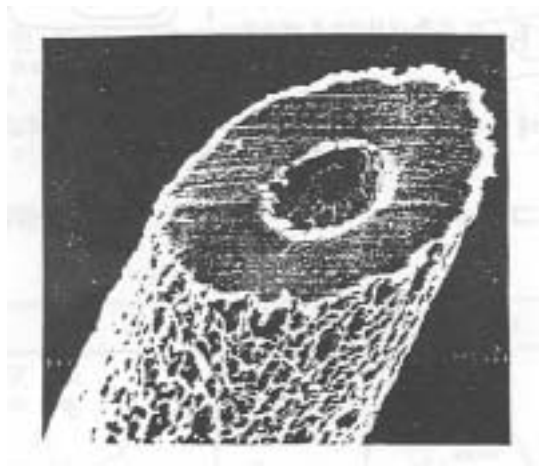
(2)

가

가

· PET, P.P

· Microfiber, ,



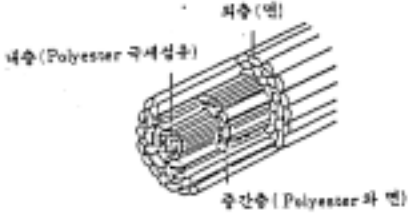
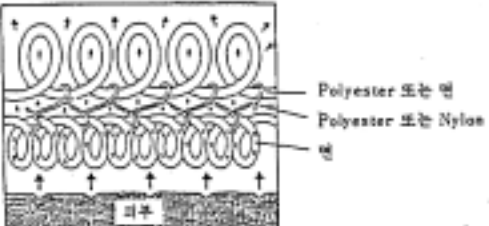
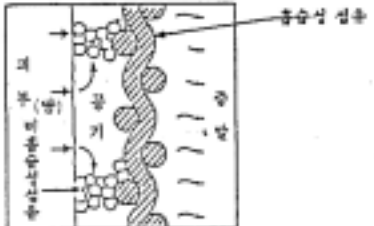
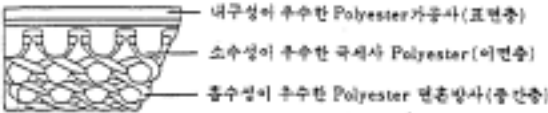
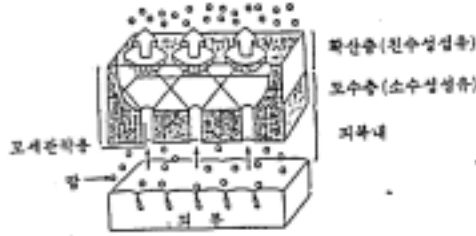
< 13>

(3)

가

· Staple yarn > ATY yarn > Stretch yarn > Filament yarn

(4)

형 태	회 사 명	제 품 명	내 용
系	Toyobo	PRH 50	
Fabric	Toyobo	ALSACE	
	Toray	진본	
		PCK	
		디프센사	플라스(모세관)이 다른 다층구조(합섬)
	Unitika	스팟자	

<그림-14>

3.

(1) Trouble

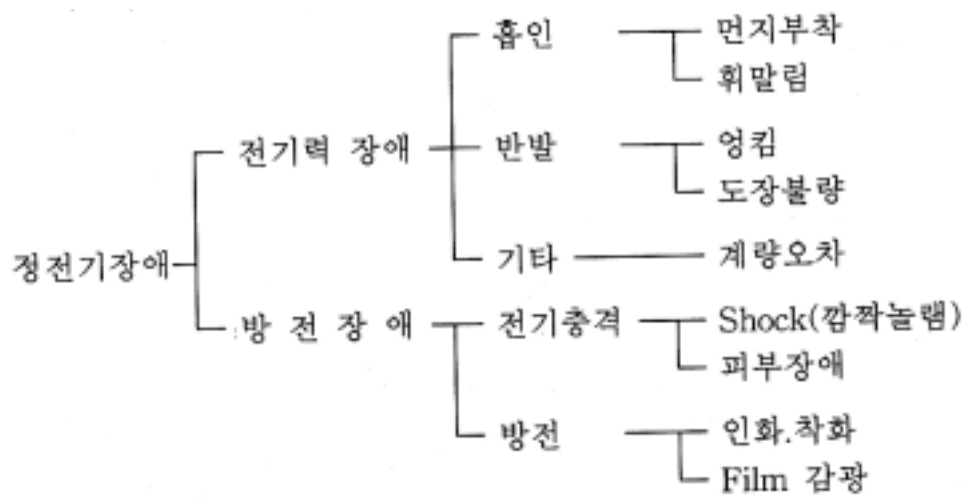
. 가 .

Point .

() - () = ()

가 Trouble .

. Trouble



(2)

.

. ,

- UP(,)

- 가

-

· —

·

4. ,

(1)

(2)

· 가

· 가

· 가 ,

(3) PH3.8-6.4

가

(4)

, Interia (,)

5.

(1)

가

가 .

가 100-3000 μ m

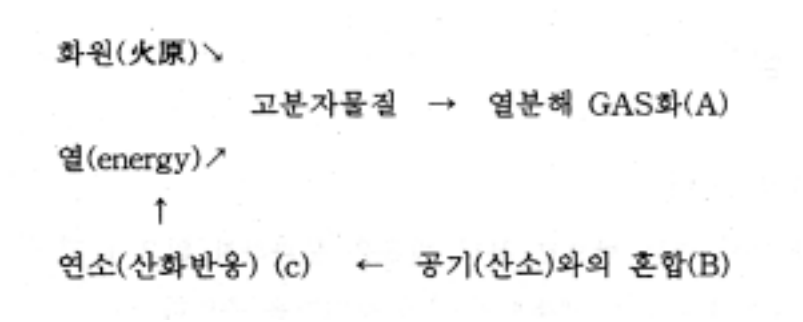
(2)

< 2>

	TYPE	DIRECT COATING	LAMINATION
	N/P , 가	Pu	FILM PET FILM
(mm H ₂ O)	500-1000	1000-5000	2000
	5000-8000	2000-4000	3000-6000
	가		

6.

(1) MODEL



(2)

(A)(B)(C) Step

< (A) >

- GAS < (A) >
가 GAS , GAS
- GAS 가
< (B) >
- < (C) >

(3)

< 3>

()	(aramid) 가 , rayon	
()	Polychral, Polyvinyl, modacryl, acryl	()
()	Polyester, Acetate	
		()
가	Polyester, Nylon	
	, rayon, acryl, acetate	

7.

(1)

- 가 가 , ,
·
[] . []
fashion ,

Stretch

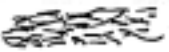
(2) Stretch

· Stretch 가 가

$$= \frac{L1 - L0}{L0} \times 100 \qquad = \frac{L1 - L2}{L1 - L0} \times 100$$

L0 : L1 : L2 :

Stretch , Stretch ,
Stretch , 가

방 법		구 조	실 사 례
신축성 가공사법			가공사직물
Spandex법			Spandex 혼섬직물
Conjugate법			Conjugate Staple와 Spun 사직물
Chemical Stretch법			목면의 alkali가공
조직에 의한 방법	직 물		가공사직물
	편 물		저지

(3) Stretch

< 4>

NO		(%)	
1	Ragular Stretch	10~20	, (中衣)
2	High Stretch	20~40	Sports
3	Power Stretch	40	Sports , Body wear

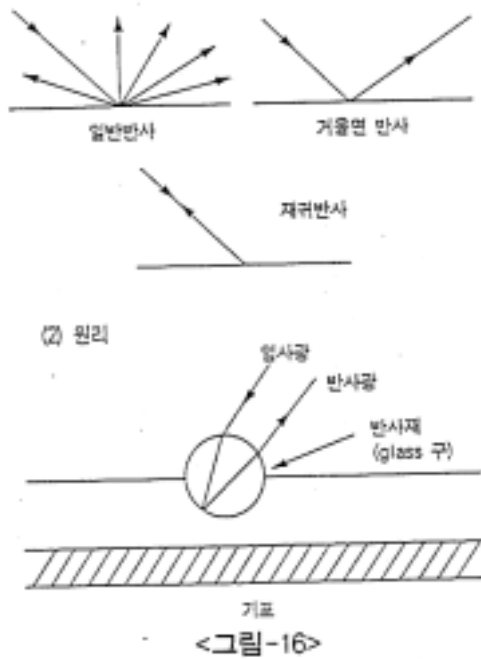
8.

(1)

가

가 가

가 .



(3)

가

gride rail,

, , , ,

.

9. 가

(1) Micro capsule 가

$\mu \sim \mu$ Microcapsule

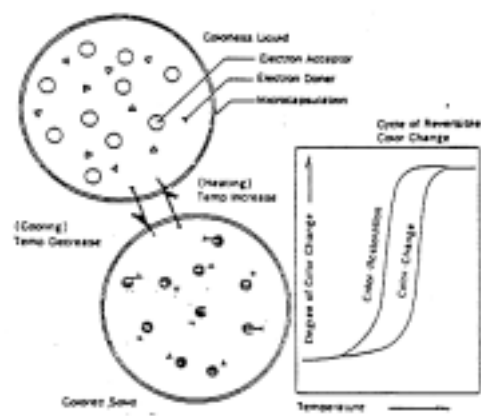
.

(Electro Doner),

(electron Aceptor)

Microcapsule

Microcapsule



(단위: 1000 μm)
<그림-17>

.

-

Microcapsule

Capsule

Mechanism

-

.



10. UV가

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D

,

,

가

.

3가

.

.

가

.

.

(TiO_2 , ZnO)

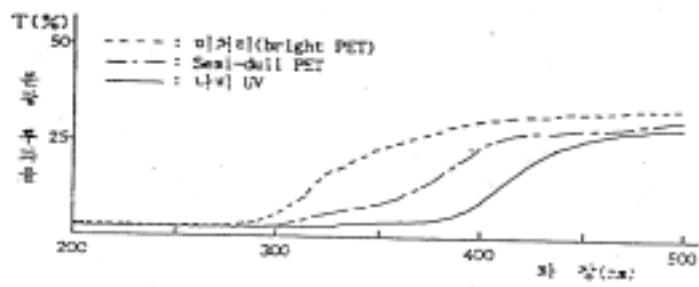
가

, 가

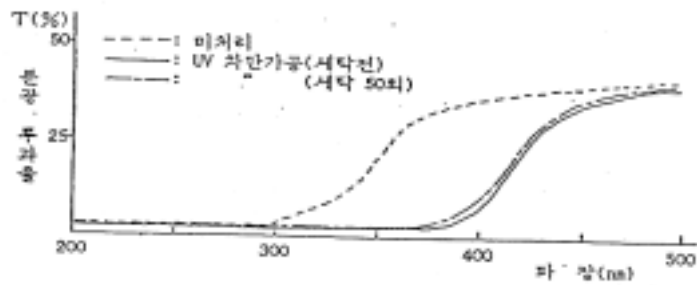
가가 .

< 5>

	C	B	A
	190~290nm	290~320nm	32~400nm
		(UV-A 1000)	, , ,
		-Sunburn, -Suntan(2), - -	-1 -Suntan(2) - , , - B -
		-	-



나비 UV(일본 Kanebo), 후가공에 의한 자외선 차단 계층



<그림-19>