

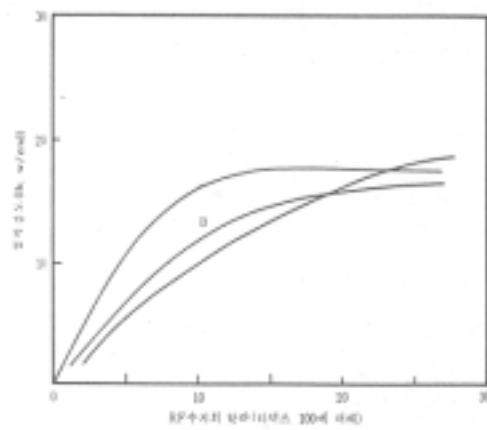
(II)

1. - 2 .

가 가 가

100

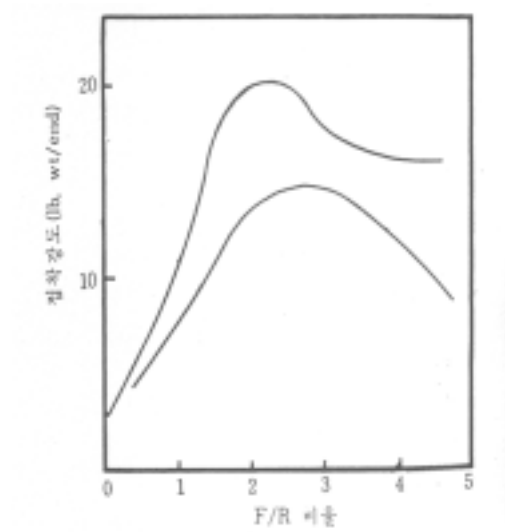
15 가



A : S - VP - B / · / SBR (121℃)
B : S - VP - B / 나일론 / NR (121℃)
C : Butyl / 레이온 / 부틸 (121℃)

< 2 > RF

2. RF ,
가



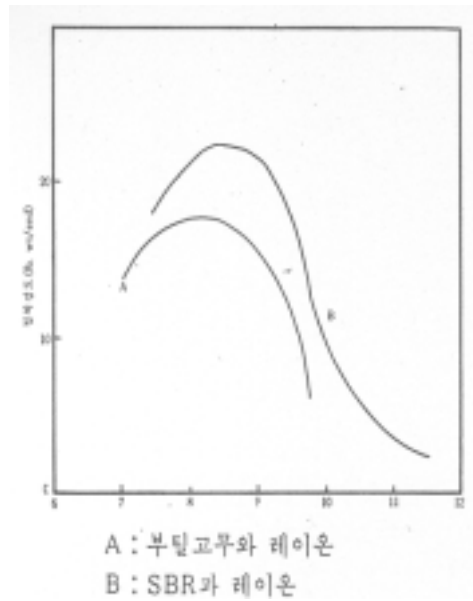
< 3 > Fomaldehyde/ Resorcinol

3 2~4 가
가 가 .
가 ,
 ,
 .
가
 .

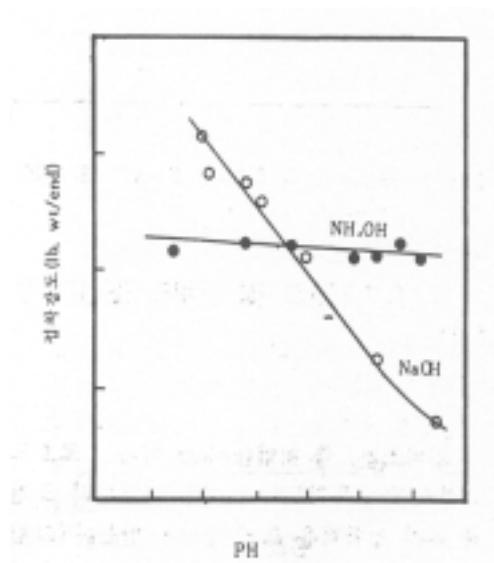
3. pH

4 RFL pH 5

.



< 4 > RFL PH



< 5 > PH

가 가 . 1

가 RFL .

< 1 > (RFL)

고 무	라 텍 스
Natural Rubber	SBR/VP Latex
SBR	SBR/VP Latex
Polybutadiene	Natural Rubber Latex/VP Latex
Butyl Rubber	Butyl Latex Halogenated Butyl latex
Nitrile Rubber	Nitrile Latex
Polychloroprene	Polychloroprene Latex/VP Latex
EPR, EPDM, CSPE	Edylene- Vinylacetate Latex Butadiene- Unsaturated Ketone Latex CSPE Latex Chlorosulphonate EPR Latex Acrylamide Grafted EPDM Latex

Reeves , 가

SBR , SBR

cold type hot type . 2

.

100% 가

(vinylpyridine) SBR

,

가 .

< 2 >

라 텍 스	레이온 (%)	나일론 (%)
'Hot' SBR	60	45
천연고무	75	55
'Cold' SBR	85	75
80% 'Hot' SBR + 20% VP Latex	95	80
Vinylpyridine	100	100

(vinylpyridine terpolymer)

, Hannal , 가
가 , 가
,
.

(diene)

EPDM

, 가
.

5.

가 , , pH

pH

A 3~5

(shelf life) . B

2

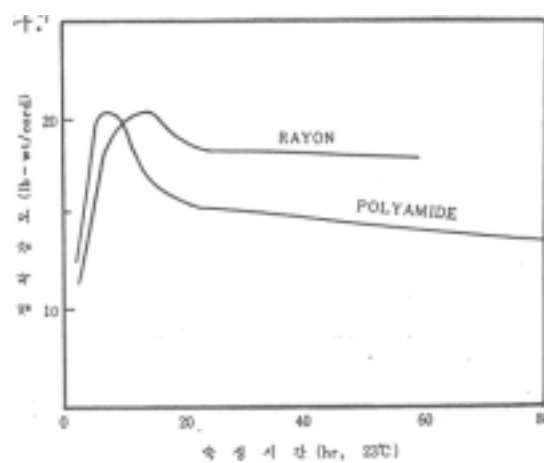
, , pH .
(24)

C 12

Doyle B

6 . RF ,

,
가 .



< 6 > (S-VP-B/RF)

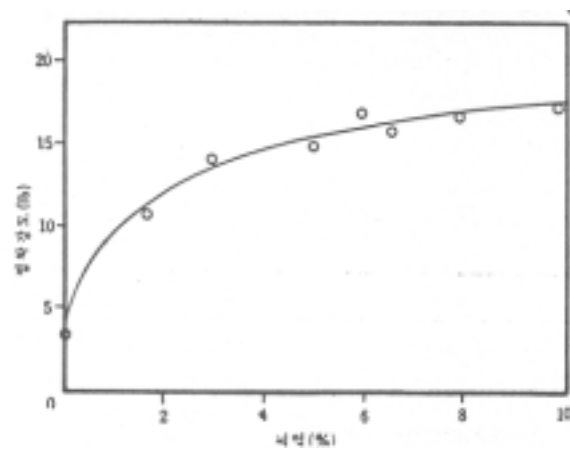
, (pickup) .(7).

가 ,

, 가 가

6~10%

가



< 7 >

, RF

.

	155 °	165	1	2
6	195 °	205	0.5	1
66	220 °	230	0.5	1

가

, 가 RFL

가

.

.

,

RFL

RFL

가

가

.

RFL

가

가

가

,

가

.

Kevlar

가

.

3

.

RF 가

.

가

.

1. RFL

가)

Canadian Industries Ltd)

2 . TR5 PVC

B RFL .

Du Pont Shoab D417 2 ,

(isocyanate)

RFL B C . 가

. D417 10.5

, .

Hartz D417

.(4)

< 4 > du Pont D417

	건 식	습 식
Hylene MP*	72.0	180.0
Epon 812*	27.2	27.2
Gum Tragacanth용액	0.8	40.0
물	-	1,752.8
	100.0	2,000.0

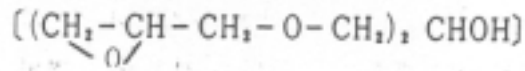
(열처리 : 210-240℃, 1 분)

* Du Pont, phenol-blocked methylene bis

(phenylene diisocyanate)



* Shell Chem. Co., liquid epoxy,



1

RFL

가

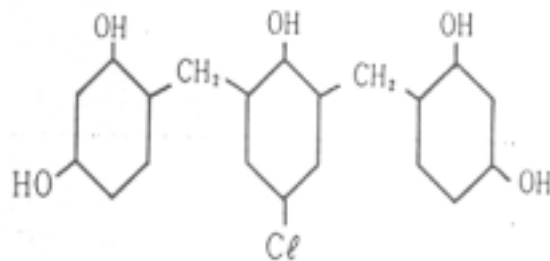
1

ICI

Pexul

(p-chloronophenol)

(trimer) RFL



< 5 > Pexul-RFL

	전 식	습 식
물	-	168.8
Resorcinol	9.8	9.8
Formaldehyde (37%)	2.2	5.9
VP Latex (41%)	48.	118.5
'Pexul' 수지용액 (20%)	39.4	197.0
합 계	100.0	500.0

pexul 5 pexul
 13.8(cal/cc)^{1/2} (15.9) 가 , Pexul

. 235
 . 1 2

.
 가 230 240
 D417 가 .
)

가 du pont Kevlar Nomex

RFL .
 가 가 D417
 RFL B C 2 . 1 240 60
 RFL 180 200 40 60

2.

.
 .
 2 1
 RFL B C 160

. 가

가 가

8 1 가

2 1

2

6

< 6 >

구역 조건	전 조	열신장	노말라이즈
장력 (ton)	1 ~ 5	2.5~15	2.5~15
신장율 (%)	- 5 ~ 15	0 ~ 25	- 5 ~ 20
온도 (℃)	50~180	100~300	100~300
전신장율 (%)	- 5	25	
속도 (m/min)	 80		

- | | |
|----------------------------|-------------------------|
| 1. Let-Off Stand. | 8. Drying Tower. |
| 2. Splice Press. | 9. Tension Stand. |
| 3. Accumulator Feed Rolls. | 10. Hot Stretch Tower |
| 4. Let-Off Accumulator. | 11. Tension Stand |
| 5. Pre-Tension Stand. | 12. Normalising Tower. |
| 6. Saturator | 13. Post-Tension Stand. |
| 7. De-Webber. | 14. Wind-Up Accumulator |
| | 15. Wind-Up. |

