

< >

(94 21.2%)

90%

5%

가

가

가

BR · SBR

가

BR · SBR · SBR-LATEX

NBR · CR ·

· HIPS-BR · EPDM 6~7가

(1994) (: M/T)						
						가
	Dupont 3M Ausimont	-	220	220	17%	28,000~ 30,000 (Kg)
HIPS-BR		18,000	3,000	21,000	5%	920~1200 ()
NBR		7,600	3,000	10,600	8%	1450 ()
EPDM	EP	35,000	3,200	24,000	33%	1470 (Kg)
CR	Denka Toyosoda Dupont Bayer	-	9,700	9,700	2.3%	2650~3100 (Kg)

() CRI

SBR · BR 가 60%, 20%, 20%
90%

가 BR 900 가 가
가

, Hose weather Strip, Seal

가

가

10%

가

가

EPDM

가

가

, Packing weather Strip

, NBR

balance가

Vapor hose, Oil Seal, O-ring, Gasket

CR

Ball joint, Dust Cover, CVJ boot, Mount

FKM()

Oil seal, Valve Stream Seal,

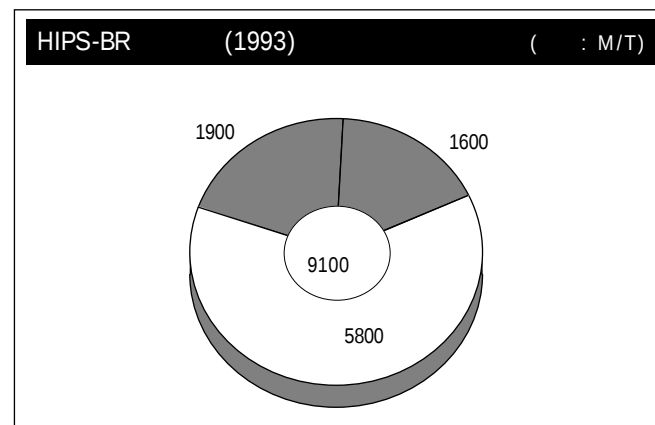
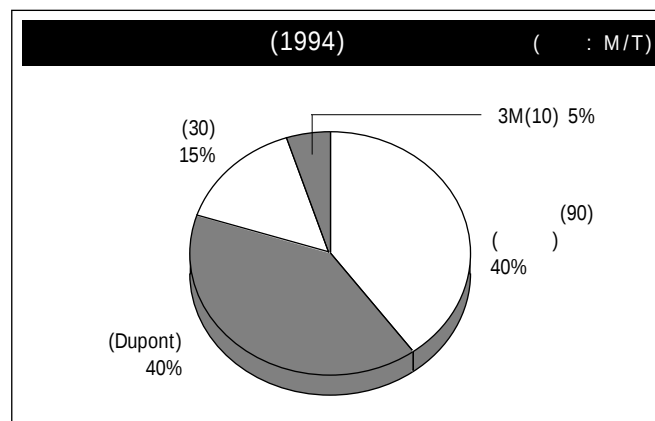
HIPS-BR

, 가

가

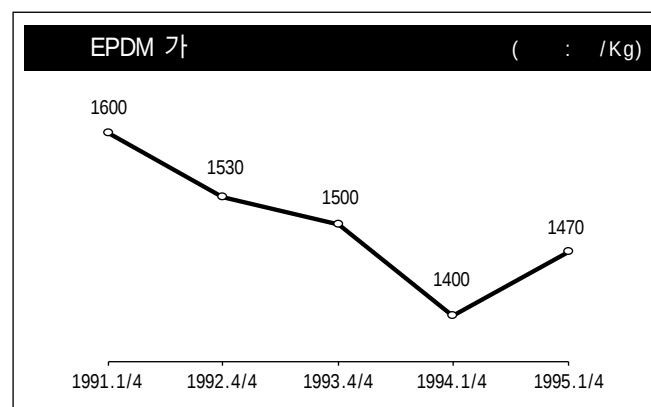
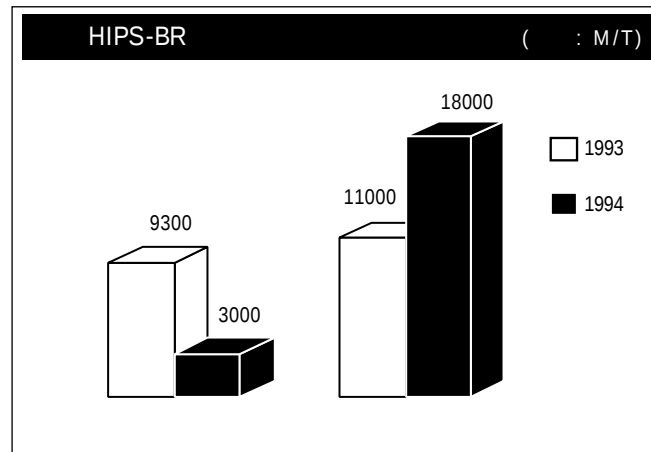
15

VDF	
	RAW POLYMER
Copolymers (2)	NH ——— LHF ———
	N935 ———
	NMR ——— 800HE ———
	——— 65BI/R ———
	NML ——— 45C2 ———
	N605K ——— 60K ———
	NML/R ——— 45C2/R ———
	——— 420 ———
	N535 ——— 5351 ——— ()
	——— 421 ——— ()
	——— 423 ———
Terpolymers (3)	N215 ———
	TN ———
	TN50A ———
	TN80 ———
	T838K ——— 7380K ———
	T636 ———



가가

Copolymers Terpolymers 가 ,



) CRI

NBR (: M/T, %)				
		1993	1994	
		9,800	7,600	22.4
		4,000	4,800	20.0
		13,800	12,400	10.1
		5,200	5,800	11.5
		3,700	3,200	13.5
		8,900	9,000	1.1
		9,200	10,000	8.0

) CRI

Dupont, 3M, Ausimont

4 가

, 94 220 93 180 17% 가

500

, 가

EPDM (: M/T)					
				가	
	Copolymer Rubber & Chemical	EP syn	43,000 (20,000)	1968.3 1990.6	Terpolymer, ENB
	E.I. Dupont	Nordel	77,000	1963.12	1,4-hexadiene
	Exxon	Vistalon	85,000 15,000	EPM-1961 EPDM-1963 1992	Terpolymer ENB
	Polysar	Polysar EPM Polysar EPDM	35,000 17,000	1971.7 1991	82 BF Goodrich Terpolymer ENB
	Uniroyal Chemical	Royalene	55,000 5,000 30,000	1964.6 1990 1991	ENB, DCPD
			295,000		
	SOCABU	Vistalon	65,000	1973	JV, Esso Chimie 80%, Compagnie Froncaise de Raffnage 20%
	Bunawerke Huels	Buna AP	41,000	1979	jv. Bayer, Huels
	Dutral	Dutral	60,000	1963	ENB, DCPD EPM
	DSM	Keltan	60,000	1967	ENB, DCPD
	Enichem Elastomer		(15,000)		Enichem 100%
	Japan Synthetic Rubber	JSR-EP	40,000	1970	82 MPC JSR jv.
	Mitsui Petrochemical	Mitsui EPT TAFMER	59,000	1970	ENB, DCPD
	Sumitomo		35,000	1969	ENB, DCPD
			134,000		

가 . 가

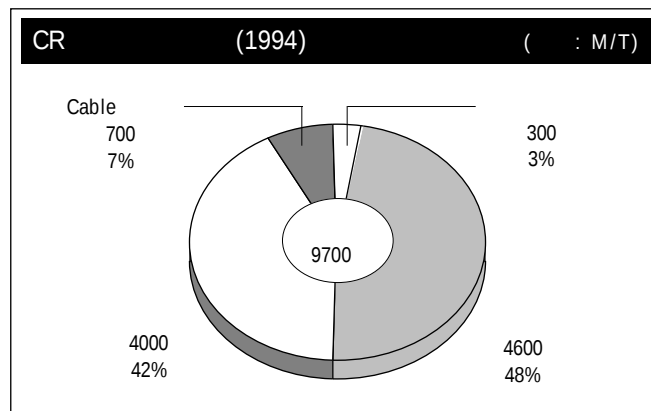
93 180 가 30 가 20% 가

NBR 5~10% 가

94 80% Dupont 90

3M 10 5% Ausimont 30 15%,

93 40%, 30%, 25%, 3M 5%



) CRI

가 가 가

94 가 Dupont Kg 3 가 가 가
2 5000 , Ausimont가 2 8000~3 , 3M 2 8000

가 94 1/4 Dupont Kg 3 , Ausimont 2 8000~3 ,
3M 2 8000 가

94 95
20% 가

HIPS-BR,
HIPS-BR 가

94 HIPS-BR 3000 93 9300 67.7%
HIPS- BR 2 1000 가 3000 1 8000

89 JSR 91 가
가 700 93
1 1000 94 7000 가 1 8000

CR (1994)		(: M/T)
	offer	
Denka	3,600	37.0
Toyosoda	2,160	22.2
Dupont	2,400	24.6
Bayer	840	8.6
Denka	720	7.4

) CRI

CR (: M/T)						
가						
	Denki KK Dupont-Showa Denko Tosoh	Omi Kawasaki Shinnanyo	45,000 20,000 20,000	"	(1962) Dupont(1963) B.P Chem(1971)	Denka Chloroprene Neoprene Skyprene
	Mobay Synthetics E.I Dupont	Houston Louisville	27,000 136,000	"	(1969) (1941)	Petro-Tex Neoprene
	Distugil	Champagnier	40,000		Distillers(1966)	Butaclor
	Bayer	Dormagen	60,000		(1955)	Bayprene
	E.I Dupont	Londonderry	33,000	"	Dupont(1960)	Neoprene
	Raznoimport	Omsk	130,000	"		Nairit
	Changshou Datong Qingdao	Sichuan Shangxi Shandong	10,000 5,000 5,000		(1958) (1966) (1966)	
	Oswiecim		50,000			
			581,000			

) ()

POLYMER	ASTM D1418	Type,class ASTM D2000	()			
				/	/	
	NR	AA	-50 ~ +70			
	SBR	BA	-40 ~ +120	brake		Brake packing/seal, Mount, Bush, Damper
	IIR	BA	-50 ~ +130	가		Accumulator, Diaphragm
	EPM EPDM	BA, CA, DA	-50 ~ +150	, , ,		Radiator hose, Packing, Weather strip
	NBR	BF, BG, CH	-20 ~ +120(-40)	, balance		Vapor hose, Oil seal, O-ring, Gasket, Diaphragm
	(HNBR)	CH	-20 ~ +140(-40)	/ (가)		Timing belt, Oil seal, O-ring, Gasket, Diaphragm
	CR	BC, BE	-40 ~ +120	, grease	(aniline点油)	Ball joint Dust cover, CVJ boot, Mount
	CSM	CE	-40 ~ +130	,	가	Oil cooler hose
	CM (CPE)	DE	-40 ~ +130	,	가	, Hose
	CO, ECO, GECO	CH	-10 ~ +140 (-30 ~ +130)	balance		Hose cover, Diaphragm
	ACM	DF, DH	-20 ~ +170(-30)			Gasket, Oil seal, O-ring, oil cooler hose
	AEM	EF	-20 ~ +170		(aniline点油)	cover seal, valve, O-ring,
	MQ VMQ PVMQ	FC, FE GE	-60 ~ +230	,	,	Oil seal, Gasket, O-ring
	FVMQ	FK	-60 ~ +200	,		Diaphragm
	FKM	HK	-10 ~ +230 (-30) (+300)	,		Oil seal, Valve stem seal hose

HIPS-BR BR
 93 1 282 , 94 1 1100 , 95 1 1900
 HIPS-BR 95
 가
 HIPS-BR BR
 ,
 4~5%
 93 , 9300 가 5800 가
 , 1900 , 1600
 가 920 BR 800 120 가
 , HIPS-BR 1200 BR 400
 HIPS-BR 가 BR 가
 BR 가
 가
 , PS HIPS-BR
 95 2 1000 가
 NBR, 8~10%
 SBR 가 NBR 94 8% 가
 , SBR 가 NBR
 94 SBR 가 95
 가 8~10%
 NBR 20 가 35L ,
 35LM, 35H, 0230L 4 SBR
 1 94 7600 , 93 9800 22.4%
 94 SBR 가 7% ,
 94 5800 , 3100 93 5200 ,
 3700 11.5%가 13.5%가
 가 Zeon 3500 , Good year
 262 , Bayer 4800
 1000 가
 600 , 가 600
 가 95 1450 94 1370 50
 가 가
 가 1800 2500 , 가
 1300 가
 , NBR 가 FOB 2000 94 800
 가 , NBR 가 가

NBR SM가 1200 가 NBR 3~4 가 1500
 EPDM가 95 4 EPDM
 가
 EPDM EP 가 SBR CR
 가 SBR
 EPDM 2 4000 가 3000
 2 3000 가
 가 94 2 가 1 5000 , 가
 가 7000
 가
 91 4 가 95
 91 1/4 Kg 1600 , 92 4/4 1530 , 93 4/4 1500 , 94 1/4
 1400 95 2 Kg 1470 ,
 , EPDM EP 2 가 (95)
 가
 CR,
 CR 가
 가 가
 94 CR Denka offer 3600
 Toyosoda offer 가 180 , 2160 93
 Dupont offer 200 , 2400 , Bayer offer 70 , 840
 Denka 60 9700 92 9100 , 93 9500
 2.3%
 Enichem offer CR 가 3%
 45%
 가
 94 CR 4000 42%
 4600 48%
 Cable 700 7%, 가 300 3% CR
 3.5%
 가 94 12 가 M-40 Kg 2800 , S-40V 2950
 93 M-40 2500 , S-40V 2600 12%

M-40 Kg 2650 , S-40V 2800 93 M-40 2400 , S-40V 2500
 10.4% , M-40 Kg 3000 , S-40V 3100 93 M-40
 2550 , S-40V 2650 17.6% 10% Risk
 .
 2% 가 10% 가
 , CR 2800 가 . 3500
 , 3000 , 95 1/4 10%
 가 .
 < 1995/4/10>