

가 , 가 ,
 가 (Vulcanizing Accelerators) 가 가
 가 가
 가 가
 가 40~45%

(: M/T, %)									
					1993		1994		
	PPD	* N-Phenyl-n-isopropylpara-phenylene Diamin(3C)	,	10,000	450	5.3	480	5.2	6.7
		* N-(1,3-dimethylbutyl)-N-pheneyl para-phenylene Diamine(6C)	,	10,000	4,000	47.1	4,400	47.3	10.0
				10,000	4,450	52.4	4,880	52.5	9.7
	Hydroquinoline	* Polymer of 2,2,4-Trimethyl-1,2-dihydroquinoline(RD)	,	4,500	3,500	41.2	3,800	40.9	8.6
				4,500	3,500	41.2	3,800	40.9	8.6
					550	6.5	620	6.7	12.7
			14,500	8,500	100.0	9,300	100.0	9.4	
가	Thiuram	* Tetra methythiuram Disulfide(TT)	,	2,000	1,410	18.3	1,500	18.5	6.4
					1,410	18.3	1,500	18.5	6.4
	Thiazole	* Mercaptpo benzothiazole(M)	,	10,000	1,100	14.3	1,150	14.2	4.5
		* Dibenzothiazole Disulfide(DM)	,	9,000	1,750	22.7	1,800	22.2	2.9
					2,850	37.0	2,950	36.4	3.5
	Sulfen amide	* N-Cyclohexyl Benzothiazyl Sulfenamide(CZ)		2,000	1,050	13.6	1,100	13.6	4.8
		* N-Oxydiethylene Benzothiazyl Sulfenamide(NBS)		2,000	1,300	16.9	1,450	17.9	11.5
					2,350	30.5	2,550	31.5	8.5
					1,100	14.3	1,100	13.6	0.0
가			17,500	7,710	100.0	8,100	100.0	5.1	
				16,210		17,400		7.3	

(Rubber Antidegradant)

가 가
 가 가
 가 50% 가 1 7400
 가 9300 , 가 8100
 70% 20%,
 55~60%, 가 40~45%, 10% 가

Steel Cord

Indspec, Cytec, Anges, Mono Chem, Sumitomo, Japan Energy

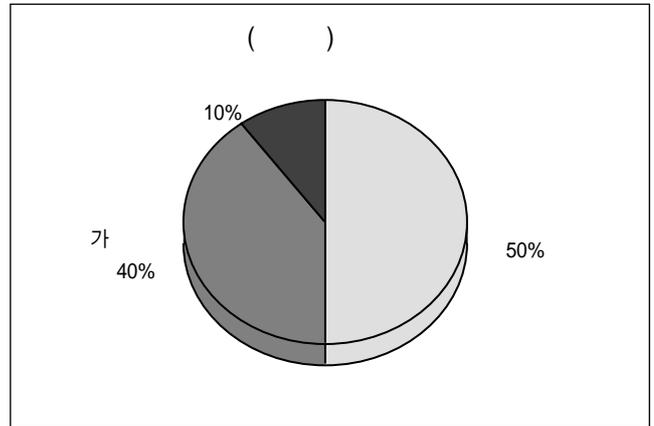
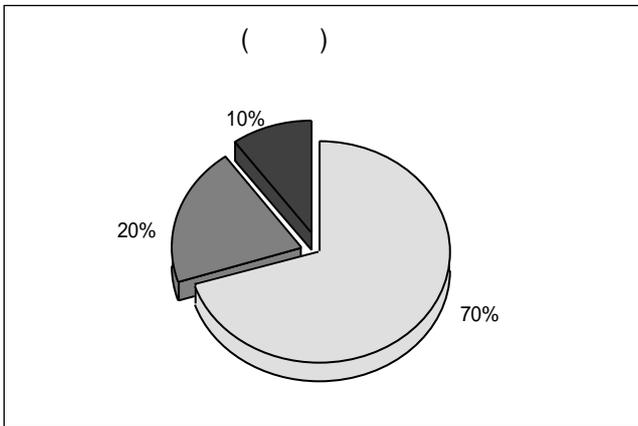
10%

가

가

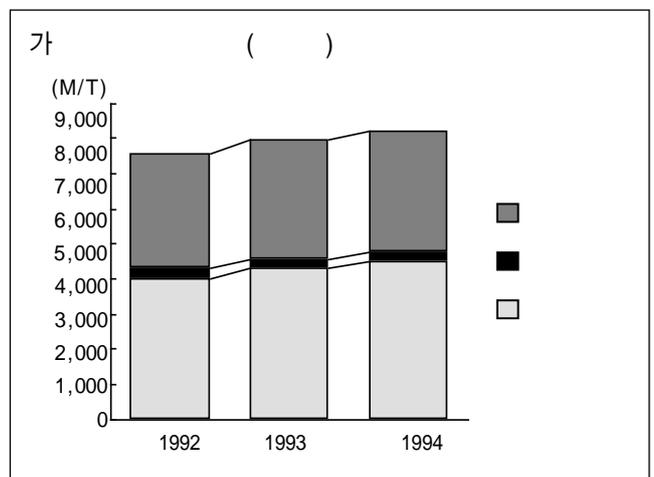
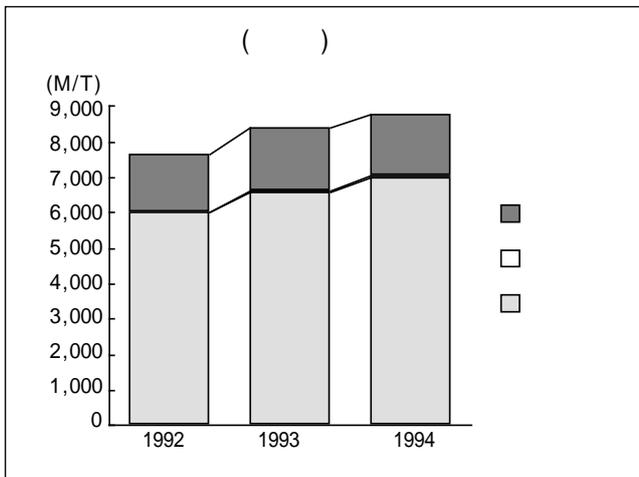
가

가



94 9300
 . PPD 가 4880 , 52.5%

93 8500 9.4%
 Hydroqui-lonine 가 3800 40.9%



PPD N-Phenyl-n-isopropyl para-phenylene Diamine(3C) 480
 5.2% N-(1,4-Dimethylbutyl)-N-phenylpara-phenylene Diamine(6C)
 4400 47.3% 가
 Polymer of 2,2,4-Trimethyl-1,2-dihydroquinoline(RD) 3800 40.9%
 BLE 가 610
 3C 6C 6C
 3C 6C Monsanto,
 Ouchi, Seiko, Kawaguichi, Sumitomo, Bayer
 RD
 15~20%

가

가 8100 Thiuram 가 1500 18.5%, Thiazole 가 2950 36.4%,
 Sulfenamide 가 2550 31.5
 Sulfenamide 가 Dibenzothiazole Disulfide(DM)
 1800 , Tetra methyl thiuram Disulfide(TT)가 1500 , N-Oxydiethylene Benzothiazyl
 Sulfenamide(NBS)가 1450
 1 7500 8000
 50% 가 15%
 가 Monsanto, Uniroyal, Ouchi, Seiko, Kawaguichi, Sumitomo, Sanshin, Bayer
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