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91 90 3~4% 600 가 ,
 가 가 가
 91 (6~7) 가
 가 10~15%,
 20~25% 가

가 PE PP Shell IPCV
 가 SABIC 가
 91 8 613 1000 (,
 670 7000) , 90 8% 가

< 1>

(:1000 , , % ,)

	1988		1992		1994		92/88	94/92
가	1,895	1,276	2,106	1,419	2,293	1,544	2.68	4.34
	790	416	808	426	879	464	0.56	4.33
	138	132	137	131	138	132	0.19	0.50
	3,147	2,883	2,946	2,698	2,982	2,731	1.64	0.61
	1,083	561	1,188	616	1,316	682	2.36	5.24
	3,507	2,089	3,743	2,229	4,112	2,449	1.64	4.82
가	3,158	1,263	3,844	1,537	4,180	1,672	5.04	4.28
	6,766	666	7,909	779	8,664	853	3.98	4.67
	258	1,012	318	1,250	356	1,398	5.40	5.78
	720	1,303	906	1,641	996	1,803	5.93	4.82
	5,056	6,571	6,123	7,958	6,468	8,405	4.90	2.77
	3,682	4,307	4,426	5,177	4,831	5,651	4.71	4.48
O X P X	780	1,209	981	1,520	1,087	1,685	5.90	5.26
	2,603	2,719	3,378	3,530	3,703	3,869	6.74	4.70
	1,049	967	1,180	1,087	1,301	1,198	2.97	4.99
	1,987	1,841	2,798	2,592	3,150	2,918	8.93	6.10
	186	214	251	289	279	322	7.82	5.45
	1,155	1,686	1,710	2,498	1,918	2,800	10.32	5.89
E V A	272	518	298	568	327	622	2.31	4.69
	275	533	336	650	377	729	5.10	5.88
	401	513	445	570	493	631	2.64	5.23
	2,300	1,641	2,912	2,077	3,037	2,166	6.07	2.12

A		N	599	1,367	624	1,423	667	1,521	1.01	3.37
E		G	349	595	445	759	465	793	6.28	2.22
V	A	M	462	962	516	1,074	591	1,232	2.80	7.09
M		A	82	164	105	208	117	234	6.15	5.85
P		O	510	1,194	637	1,492	677	1,586	5.72	3.10
			333	428	387	497	429	552	3.81	5.32
			288	773	337	905	371	996	4.04	4.88
P		G	50	120	64	154	71	171	6.48	5.35
P	P	G	265	811	321	982	355	1,086	4.88	5.15
			288	420	357	520	399	580	5.47	5.69
M	E	K	175	394	199	447	226	510	3.23	6.77
V	C	M	1,992	2,256	2,499	2,830	2,623	2,971	5.83	2.46
M	M	A	332	896	421	1,135	469	1,265	6.10	5.58
S		M	1,757	3,306	2,297	4,323	2,466	4,641	6.93	3.61
			357	918	446	1,146	518	1,333	5.70	7.84
P	T	A	1,149	2,252	1,559	3,054	1,696	3,323	7.92	4.31
			493	1,901	540	2,083	597	2,305	2.31	5.18
P		A	306	440	361	519	399	575	4.19	5.23
D	M	T	326	524	375	603	415	666	3.57	5.17
T	D	I	96	348	130	472	146	532	7.89	6.20
M	D	I	145	646	176	783	195	866	4.91	5.18
			561	683	665	810	732	892	4.35	4.94
			135	342	173	435	191	483	6.21	5.31
S	B	R	626	2,278	788	2,868	866	3,154	5.92	4.87
N	B	R	70	468	73	487	80	533	0.98	4.68
P	C	R	89	491	97	536	106	585	2.22	4.52
P	B	R	245	839	299	1,024	329	1,125	5.11	4.84
E	P	R	118	637	133	720	149	805	3.10	5.68
			141	70	57	28	40	20	20.24	15.64
			1,360	507	1,678	626	1,917	715	5.39	6.90
			51	352	65	450	73	501	6.26	5.60
			357	1,882	438	2,310	490	2,584	5.26	5.76
			497	491	590	584	658	65	4.38	5.58
			127	547	152	655	168	727	4.61	5.31
			238	795	319	1,066	365	1,220	7.61	6.96
Polyester			124	796	167	1,074	190	1,219	7.78	6.55
			1,421	3,322	1,793	4,191	1,914	4,473	5.98	3.31
L	D	P	959	2,197	1,128	2,584	1,176	2,695	4.14	2.12
H	D	P	1,267	3,333	1,576	4,145	1,782	4,686	5.60	6.33
P		S	1,559	3,826	2,012	4,939	2,206	5,416	6.59	4.72
P		P	1,837	3,166	2,223	3,830	2,342	4,036	4.88	2.65
P	V	C	151	1,067	197	1,396	227	1,603	6.94	7.15
P		A	84	699	114	947	140	1,156	7.88	10.46
P		C	110	757	144	994	179	1,229	7.05	11.20
P	O	M	413	1,273	538	1,655	604	1,860	6.79	6.01
P	E	T	40	289	54	386	60	427	7.48	5.14
P	B	T	189	778	206	850	238	982	2.23	7.46
P	V	A	16	496	18	568	22	695	3.44	10.64

< 2> PP (: ,)

				PP				
				(%)				
				1988	1992	1994	92/88	94/92
	E D C P V A			306,480	388,004	404,613	6.07	2.12
				152,285	170,051	195,009	2.80	7.09
				142,368	168,712	181,204	4.34	3.64
	E O			520,018	649,636	690,544	5.72	3.10
				233,320	270,969	300,587	3.81	5.32
	V C M			466,366	584,963	614,152	5.83	2.46
				499,399	652,999	701,055	6.93	3.61
	E P D M			81,371	91,949	102,689	3.10	5.68
				1,513,435	1,909,391	2,037,763	5.98	3.31
	LDPE/EVA			891,211	1,048,098	1,093,010	4.14	2.12
				120,240	140,870	153,314	4.04	4.32
	H D P E			160,951	186,368	162,084	3.73	6.74
				5,087,444	6,262,008	6,636,023	5.33	2.94
				30,555	138,313	168,003	45.86	10.21
				5,056,889	6,123,695	6,468,020	4.90	2.77
	A N			52,344	62,916	68,676	4.71	4.48
				226,435	248,047	271,855	2.31	4.69
				89,488	109,188	122,400	5.10	5.88
	P O			72,658	79,935	89,974	2.41	6.09
				721,869	751,379	802,886	1.01	3.37
	E P D M			196,821	230,574	253,604	4.04	4.88
				251,768	311,575	348,044	5.47	5.69
	P P			182,782	228,136	265,313	5.70	7.84
				52,851	59,721	66,697	3.10	5.68
				1,681,633	2,170,466	2,379,996	6.59	4.72
				17,043	22,027	24,397	6.62	5.24
				147,050	174,956	191,658	4.44	4.66
				3,692,742	4,448,918	4,885,500	4.77	4.79
				10,438	22,888	54,222	21.69	53.92
				3,682,304	4,426,030	4,831,278	4.71	4.48
P P	가 / / /			37,115	44,383	48,492	4.57	4.53
				346,831	451,513	492,905	6.82	4.48
				55,899	67,269	74,580	4.74	5.29
				160,825	208,070	231,568	6.65	5.50
				60,532	70,835	77,203	4.01	4.40
				135,099	159,870	174,912	4.30	4.60
				157,587	197,189	215,905	5.76	4.64
				201,313	267,522	296,399	7.37	5.26
				175,088	220,873	242,997	5.98	4.89
				31,746	41,523	45,910	6.94	5.15
				87,387	104,080	116,216	4.47	5.67
				124,077	216,182	231,671	14.89	3.52
				1,573,499	2,049,308	2,248,759	6.83	4.75
				14,142	36,663	41,818	26.89	6.80
				1,559,357	2,012,645	2,206,940	6.59	4.72

					(%)	
		1988	1992	1994	92/88	94/92
LDPE	가	77,767	92,994	101,605	4.57	4.53
	/ /	46,186	50,912	56,094	2.47	4.97
	/	604,305	786,700	858,819	6.82	4.48
	/ /	18,694	22,497	24,942	4.74	5.29
		95,311	115,574	127,817	4.94	5.16
		47,396	61,320	68,245	6.65	5.50
		102,223	119,624	130,377	4.01	4.40
		210,069	248,586	271,977	4.30	4.60
	가	38,878	49,080	54,708	6.00	5.58
		24,981	32,675	36,127	6.94	5.15
		73,856	89,749	98,506	4.99	4.76
		136,228	228,894	199,804	13.85	6.57
		1,475,894	1,898,602	2,029,018	6.50	3.38
		54,310	105,093	114,928	17.94	4.57
		1,421,584	1,793,509	1,914,090	5.98	3.31
HDPE	/	10,690	13,020	14,197	5.05	4.42
	/ /	65,401	72,093	79,431	2.47	4.97
	/	354,698	461,756	504,087	6.82	4.48
	/ /	42,319	50,927	56,462	4.74	5.29
		16,388	21,202	23,597	6.65	5.50
		91,476	107,047	116,670	4.01	4.40
		96,803	114,552	125,331	4.30	4.60
	가	35,462	44,767	49,900	6.00	5.58
		57,094	75,872	84,061	7.37	5.26
		15,317	17,934	19,700	4.02	4.81
		49,578	60,924	67,390	5.29	5.17
		130,471	94,827	52,913	7.67	25.30
		965,698	1,134,921	1,193,739	4.12	2.56
		6,446	6,804	17,281	1.36	59.37
		959,252	1,128,117	1,176,458	4.14	2.12
P S	/	137,931	179,563	196,024	6.82	4.48
		322,636	391,229	432,673	4.94	5.16
		179,456	210,004	228,881	4.01	4.40
		122,247	144,661	158,273	4.30	4.60
		21,009	28,977	32,943	8.37	6.62
	/	26,206	37,372	42,631	9.28	6.80
		214,603	268,533	294,022	5.76	4.64
	/	27,096	36,871	41,638	8.01	6.27
		41,801	55,549	61,545	7.37	5.26
		62,480	73,157	80,360	4.02	4.81
		38,749	49,928	55,905	6.54	5.82
		89,840	136,319	194,782	10.99	19.54
		1,284,055	1,612,164	1,819,675	5.85	6.24
		16,360	35,465	37,116	21.34	2.30
		1,267,695	1,576,699	1,782,560	5.60	6.33

< 4> PVC · SM (: ,)

					(%)	
		1988	1992	1994	92/88	94/92
P V C	/ /	15,733	17,343	19,108	2.47	4.97
	/	455,653	593,182	647,561	6.82	4.48
	/ /	713,042	858,066	951,331	4.74	5.29
		26,905	34,809	38,740	6.65	5.50
		31,285	36,611	39,902	4.01	4.40
	가	269,663	340,425	379,458	6.00	5.58
		39,740	49,726	54,446	5.76	4.64
		26,100	35,667	40,538	8.12	6.61
		91,417	121,482	134,595	7.37	5.26
		150,354	189,671	208,670	5.98	4.89
		64,654	80,531	89,539	5.64	5.44
		79,916	58,761	49,968	7.40	7.79
		1,964,462	2,416,274	2,653,856	5.31	4.80
		126,883	192,950	311,006	11.05	26.96
		1,837,579	2,223,324	2,342,850	4.88	2.65
M A S M		58,143	73,810	82,691	6.15	5.85
		1,330,118	1,739,219	1,867,214	6.93	3.61
		367,002	458,067	532,715	5.70	7.84
		587,364	696,370	766,828	4.35	4.94
		106,341	135,336	150,078	6.21	5.31
		86,616	99,934	109,216	3.64	4.54
		10,352	13,400	14,730	6.67	4.84
		5,415	6,660	7,432	5.31	5.63
		4,123	5,076	5,616	5.34	5.18
	/ / /	12,717	15,041	16,213	4.29	3.82
		2,033	2,234	2,425	2.39	4.19
		115,492	163,063	180,571	9.01	5.23
		2,685,716	3,408,212	3,735,728	6.14	4.69
		82,711	29,522	32,285	22.71	4.57
		2,603,005	3,378,690	3,703,443	6.74	4.70
S M	S B R	200,895	252,850	278,060	5.92	4.87
	Polyester	193,962	260,114	297,556	7.61	6.96
	P S	1,057,734	1,315,559	1,487,324	5.60	6.33
	ABS/AS	438,757	560,166	639,146	6.30	6.82
		6,373	7,839	8,747	5.31	5.63
	()	1,927	2,362	2,589	5.22	4.70
	/	2,557	2,292	2,344	2.70	1.13
		5,269	6,817	7,587	6.65	5.50
	/ / /	4,964	5,871	6,328	4.28	3.82
		21,351	27,926	30,877	6.94	5.15
		1,489	1,632	1,774	2.32	4.24
		41,584	97,865	56,530	23.86	24.00
		1,976,862	2,541,292	2,818,862	6.48	5.32
		219,588	243,537	352,008	2.62	20.22
		1,757,274	2,297,755	2,466,854	6.93	3.61

· 吳羽 ·) 8 , 三井東壓 · S&B
 , , FPC, PVC 500
 , 가 ,
 , PVC , 가가
 가 91 BTX(, ,) 2 ,
 SM ,
 3 SM , 90
 300 , 91 太陽 , 興亞 310
 SM PS · ABS 가 · 가 ,
 가 出光 20 가 가 SM 가
 千葉 (三井石油化學 出光石油化學) , 가
 4/4 가 SM '1~3 , 2/4 , 220 ~ 230
 91 PX , PX
 Polyester , 20~30% 가 , PTA, PX 1~2
 , 가