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91

1 가 CMB(Carbon Master Batch)

< 1> SBR

( : , %, )

	1988( )	1992	92/88	1994	94/92
	626,144	788,075	5.92	866,648	4.87
	41,721	29,074	8.63	30,085	1.72
A B S A S	22,247	25,240	3.21	27,458	4.30
	101,584	119,556	4.16	131,773	4.98
	13,712	17,506	6.30	19,974	6.82
	383	471	5.31	525	5.63
	3,974	4,640	3.95	5,172	5.57
	8,183	9,847	4.74	10,918	5.29
	317,893	399,608	5.89	437,792	4.67
	98,477	121,248	5.34	134,127	5.18
	1,513	1,771	4.02	1,945	4.81
	31,169	40,768	6.94	45,076	5.15
	68,731	76,494	2.71	81,975	3.52
	667,865	817,149	5.17	896,734	4.76

:日本化學工業日報

< 2> CMB

		( )
日合 加工		10,000
信川 護 護 工業 所		10,000
角 一 工業	90	20,000
C R K	CMB	6,000
世 界 長	CMB	
東 蘇	2	
增 子		
潼 野		
東 北	丸善藥品 CMB	1,800

91

90 2% , 86 5  
가

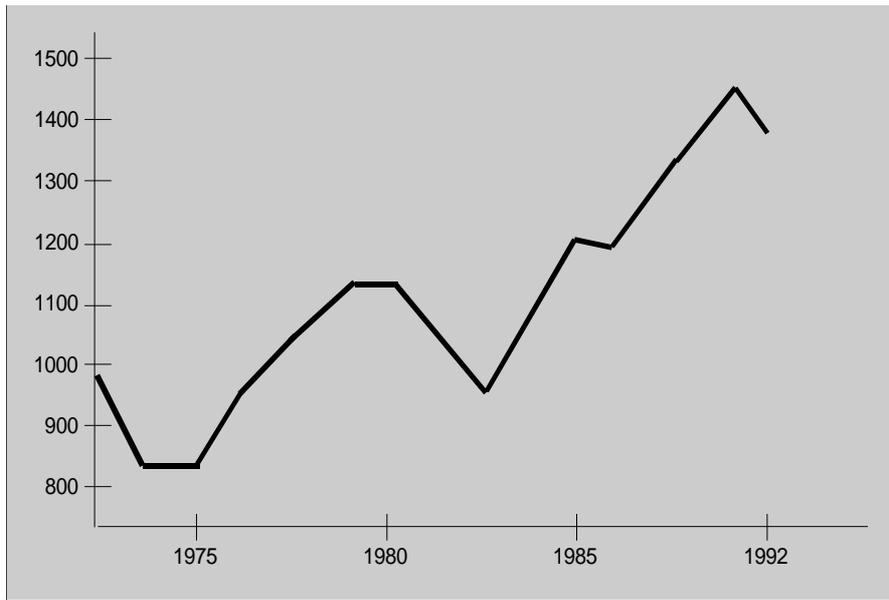
91

92

50% 50% SBR 90  
, NBR · EPDM

< 1>

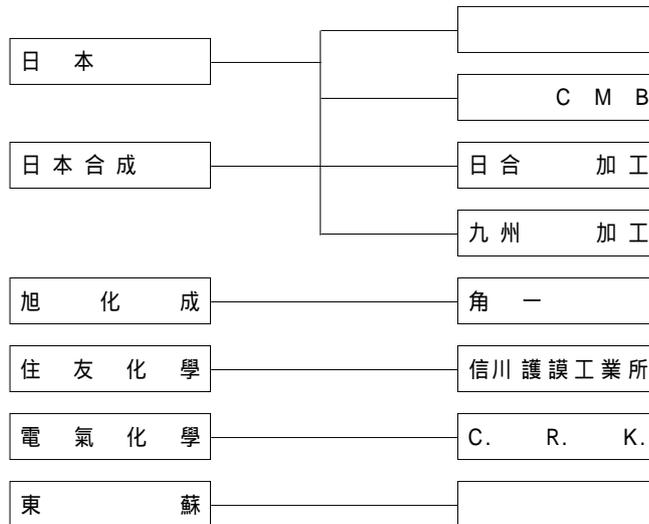
( :1000 )



< 2>

CMB

< > <CMB >



(Radial) 가 4% , 가 1.4%  
 SBR · IR 가 1.4%  
 PS Hi-impact PS 가  
 BR 가 SBR · IR

< 3 >

( : , % , )

		1989	1990	1991		1989	
S B R (HS )		391,752	379,033	363,400	4.1	356,100	2.0
		69,102	66,998	62,390	6.9	62,000	0.6
		450,854	446,031	425,790	4.5	418,100	1.8
B R		117,199	167,102	164,730	1.4	163,100	1.0
		62,902	69,831	69,220	0.9	69,000	0.3
		180,101	236,933	233,950	1.3	231,100	0.8
I R		65,511	50,257	43,400	13.6	42,500	2.1
		14,863	5,699	6,050	6.2	6,100	0.8
		80,374	55,956	49,450	11.6	48,600	1.7
C R		34,062	46,062	44,430	3.5	43,600	1.9
		38,115	48,701	47,310	2.9	47,300	0
		72,177	94,763	91,740	3.2	90,900	0.9
N B R		19,239	29,429	38,340	30.3	38,500	0.4
		11,111	24,974	24,980	0	25,000	0.1
		30,350	54,403	63,320	16.4	63,500	0.3
I I R		54,147	60,697	60,550	0.2	59,900	1.1
		21,346	31,496	29,540	6.2	29,000	1.8
		75,493	92,193	90,090	2.3	88,900	1.3
E P D M		42,824	118,471	123,670	4.4	126,760	2.5
		2,316	11,629	11,240	3.3	18,500	64.6
		45,140	130,100	134,910	3.7	145,260	7.7
		5,689	15,367	9,530	38.0	9,400	1.4
		274	2,026	400	80.3	500	25.0
		5,693	17,393	9,930	42.9	9,900	0.3
S o l i d		730,423	886,418	848,050	2.1	839,860	1.0
		220,029	261,354	251,130	3.9	257,400	2.5
		950,452	1,127,772	1,099,180	2.5	1,097,260	0.2
L a t e x		149,870	273,740	278,040	1.6	282,200	1.5
		9,968	17,269	16,410	5.0	16,500	0.5
		159,838	291,009	294,450	1.2	298,700	1.4
		880,293	1,140,158	1,126,090	1.2	1,122,060	0.4
		229,997	278,623	267,540	4.0	273,900	2.4
		1,110,290	1,418,781	1,393,630	1.8	1,395,960	0.2

80%가 , 가 90 2.5%  
 , 가가 ,  
 90  
 EPDM 가 12 , BR . NBR  
 .( 가 NBR (紙) 가 .)

EPDM 12 가 13  
 , 가 , 92 가 , .

30%  
 , 가 가 가 ,  
 , 가 , 가가 ,  
 , 92 91 0.5% .

가 , .  
 SBR · IR  
 SBR 91 1.8%, IR 1.7% . BR Studless Tire  
 가 , 0.8% .

EPDM 91 2.5% 가  
 , NBR · CR ·

91 112 가  
 Hiimpact PS가 , . 가

92 91 0.4% 112 2000 ,  
 91 139 5000 가 ,  
 , SBR ( ) ,  
 가 , SBR , 가

가 , ,  
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日本合成 가 2 EP . 가 . EPDM

(改質材) 가  
 日本合成 EPDM · EP  
 6  
 三井石油化學 EPDM 가 7000  
 EPDM , 91 出光DSM 4 EPDM 가  
 21 住友化學 4  
 日本 「 」 , CMB  
 91 CMB  
 ~25 , CMB 4 (87~90 ) 20.5% 가 CMB 20  
 91 CMB CMB 가  
 , CMB  
 가 , CMB  
 Total( )  
 CMB ( ) 가  
 CMB 4 가 가가  
 CMB CMB  
 가 가  
 CMB  
 가 ,  
 CMB