

<M D I>

“

”

?

MDI HDPC
HDPC 93 5 2 5000 가 , 7 가 500
93 1
HDPC 30%
92 6 93 3 2 , 1
Crude MDI 500 가
93 92 2
가 가
94 (4)
95
MDI가 PMDI가 1400 , MMDI 2200 PMDI 2300
MMDI 3000 , PMDI 1900 MMDI 2500~3000 가
92 MDI 4 75% 3 70%

MDI		(: M/T, %)							
		1991		1993		1995			
								(87~91)	(91~95)
PMDI		10,900	30.1	12,500	29.6	13,400	26.2	9.80	5.2
		5,000	13.8	7,200	17.0	10,000	19.6	26.0	19.0
		3,000	8.3	3,500	8.3	4,400	8.6	97.0	10.0
		1,500	4.1	1,900	4.5	2,400	4.7	14.0	12.6
		1,600	4.4	1,700	4.0	2,600	4.9	-	11.7
		22,000	60.7	26,800	63.4	32,700	64.0	20.0	10.5
MMDI/ MOD·MDI	ShoeSole	6,100	16.9	5,500	13.0	6,500	12.7	19.4	1.6
		3,100	8.6	3,600	8.5	4,200	8.2	16.2	7.9
		3,000	8.3	3,800	9.0	4,700	9.2	12.1	11.7
		2,000	5.5	2,600	6.1	3,000	5.9	49.6	10.7
		14,200	39.3	15,500	36.6	18,400	36.0	19.3	9.2
		36,200	100.0	42,300	100.0	51,100	100.0	19.8	10.0

93 2 9 MMDI
70%
MDI MMDI
가 MDI

93 MDI 92 1 5000
70~80%

가
MDI 4 (), 2
() HDPC가
3 MDI 6000

, HDPC(; Joseph Riu) 2 93 5 가
4500 1 MDI

MDI 92 4 93 4 5000 12.5% 가
() 6 1000 가 , MDI
Crude MDI 가 9%

, MDI 3 7000 , 3 ,
3 , 5 5000 , 3 6000 MDI 23 8000

MDI (: 1000M/T, %)							
		1990		1992		1995	
		-	-	40	-	40	-
		20	-	40	100.0	40	-
		20	-	80	300.0	80	-
		32	60.0	40	25.0	51	30.0
가		-	-	100.0	-	128.0	-
		160.0	-	50.0	-	64.0	-

MDI (: 1000M/T, %)					
		1990	1992	1995	
		1,386	1,816	1,816	6.0
		1,200	1,300	1,450	4.0
가		87	72	80	-

) 90~95 ,

MDI (: 1000M/T, %)					
		1990	1992	1995	
		218	288	288	6.0
		125	140	167	6.0
가		57	49	58	-

) 90~95 , = +

MDI 91 17 91 10 9000 , 92 13 500
95 28 8000 , 16 7000 가 58% ,

MDI · PMDI , MDI가 88 ,

91 MDI 3 6200 , PMDI 2 2000 60.7%, MMDI/Modified
MDI 1 4200 39.3% 97 PMDI 가 가, 87~91 20.0%
, 91~95 10.5%
MMDI/MOD · MDI 87~91 19.3% 가 , 91~95 9.2% 가가

PMDI 91 1 900 MDI 30.1% 가
, 5000 13.8%, 3000 8.3%, 1500 4.1%

MMDI/MOD · MDI Shoe Sole 6100 16.9% ,
 3100 8.6%, 3000 8.3%, 2000 5.5%

91 ~ 95 5.4% , 9.4%, 11.7%

PMDI , ,
 10%

95 PMDI 1 3400 가 26.2% PMDI 1
 91 ~ 95 19.0% , 가 19.6%

PMDI 95 4400 10.0% , 가 8.6%
 PMDI 2400 12.6% 가 4.9%

MMDI/MOD · MDI 91 ~ 95 9.2% Shoe Sole
 7.9% , 11.9%, 10.7%

MDI (: M/T)	
	37,000
	30,000
	80,000
	55,000
	36,000
	238,000
	1990 169,874
	199 170,089

95 Shoe Sole MMDI/MOD · MDI
 6500 가 91 16.7% 12.7%
 4200 8.2% 91 8.6%

MMDI/MOD · MDI 96 4700 9.2%,
 3000 5.9% 91

8.3%, 91 ~ 95 MDI 가 10.0%
 , 95 5 1100
 MDI
 Dow
 가

Japan BASF MDI 8000`~9000 ,
 가 BASF , 5000

가 , CFC HCFC PU
 PU

PU

Unknown System House

PU ICI가 In tegral Skin Foam
 PU 90% PU , 95%
 Raw Material , PU PU

가 , PU PU
Dow 가

MDI PU (: M/T, %)												
	1990		1991		1992		1993		1994		1995	
A P P L	8,000	5.88	20,000	11.1	22,000	10.0	24,500	11.3	26,000	6.12	28,000	7.69
	12,000	20.0	13,000	8.33	14,000	7.69	15,000	7.14	17,000	13.3	19,000	11.7
T P U	10,000	11.1	10,000	0	9,000	10.0	8,000	11.0	8,000	0	8,000	0
	800	-	5,000	-	5,000	-	7,000	-	7,000	9-	7,000	-
	9,200	-	10,200	-	11,100	-	12,100	-	13,000	-	13,900	-
가	1,400	40.0	1,600	14.2	1,800	12.5	2,000	11.1	2,300	15.0	3,500	52.1
	15,000	0	17,000	13.3	18,500	8.82	20,000	8.10	22,000	10.0	24,000	9.09
C A S E	7,000	12.5	7,400	20.0	9,700	15.4	11,000	13.4	12,700	15.4	14,000	10.2
Synthetic	5,000	-	5,400	-	6,200	-	6,200	-	7,600	-	8,500	-
	2,000	-	3,000	-	3,500	-	4,400	-	5,100	-	5,500	-
	4,600	53.3	5,000	8.69	5,000	0	5,500	10.0	6,000	9.09	7,500	25.0
	70,000	11.1	75,000	7.14	80,000	6.66	86,000	7.5	94,000	9.30	104,000	10.6

PU BASF, ICI, Dow 5 PU
90 MDI Bayer · ICI · Dow · BASF · Mitsui Doatsu 5
Dow MDI
, Cyating,
MDI 가 5
가 Premarketing , 90
가
MDI 가 가
PMDI가 2000 1350
MDI Crude , PU
가 가
가 가

< 1993/11/1>