

Pigment & intermediates

가 가 가

3 2714

가	93	6.0%	9147	11.8%
가	9757	4.5%	가	
가	21.1%	가	0.4%	가
			1	2668

가

GNP

가

(: M/T, %)

	1990	1991		1992		1993		1994	
	3,022	3,250	7.5	3,404	4.7	4,039	18.7	3,249	19.6
	465	878	88.8	886	0.9	953	7.6	1,062	11.4
	2,568	2,836	10.4	3,128	10.3	3,432	9.7	2,815	18.0
	134	118	11.9	91	22.8	113	24.2	172	52.2
	2,749	1,027	62.6	885	13.8	1,197	35.3	1,849	54.5
	8,938	8,109	9.3	8,394	3.5	9,734	16.0	9,147	6.0
	3,509	3,847	9.6	3,660	4.9	3,447	5.8	4,102	19.0
	8,823	15,022	70.3	1,489	90.0	28,157	89.1	23,567	16.3
	94	65	30.9	23	64.6	32	39.1	39	21.9
	11,696	5,506	52.9	6,293	14.3	5,451	13.4	5,006	8.2
	24,112	24,440	1.4	11,465	53.1	37,087	223.5	32,714	11.8
	7,069	8,894	25.8	8,580	3.5	9,340	8.9	9,757	4.5
	7,069	8,894	25.8	8,580	3.5	9,340	8.9	9,757	4.5
	40,119	41,443	3.3	28,439	31.4	56,161	97.5	51,618	8.1
	5,755	5,344	7.1	6,455	20.8	4,899	24.1	5,932	21.1
	6,939	9,393	35.4	11,992	27.7	12,717	6.0	12,668	0.4
	12,694	14,737	16.1	18,447	25.2	17,616	4.5	18,600	0.6

2000 , 가 900 , 가 600

90 가 , 13 15% 가 , 93

94 10%

, 95

, TV 가 가

가 가

Ciba-Geigy · Bayer · Dupont

(: M/T, %)

1993					1994							
332	4	-	-	411	23.8	76	1,800.0	-	-	-	-	-
896	112	32	482	1,013	13.1	154	37.5	39	21.9	612	27.0	-
744	-	-	348	868	16.7	-	-	-	-	361	3.7	-
-	-	-	2,797	-	-	-	-	-	-	3,027	8.2	-
-	28,041	-	-	-	-	23,337	16.8	-	-	-	-	-
1,476	-	-	-	1,810	22.6	-	-	-	-	401	-	-
-	-	-	1,824	-	-	-	-	-	-	1,006	44.8	-
3,448	28,157	32	5,451	4,102	19.0	23,567	16.3	39	21.9	5,407	0.8	-

(: M/T, %)

1993						1994									
225	-	45	28	53	209	7.1	-	-	69	53.3	28	-	34	37.0	
36	-	64	41	2	81	125.0	120	-	114	78.1	-	-	7	250.0	
-	318	98	10	626	91	-	244	23.3	218	122.4	17	70.0	1,038	65.8	
739	385	1,163	75	37	877	18.7	481	24.9	160	86.2	126	68.0	46	24.3	
-	185	-	-	-	-	-	218	17.8	-	-	-	-	-	-	
-	-	-	-	480	-	-	-	-	-	-	-	-	724	50.8	
1,034	-	-	-	-	1,280	23.8	-	-	-	-	-	-	-	-	
2,005	-	2,085	-	-	710	64.6	-	-	770	63.1	-	-	-	-	
4,039	888	3,455	154	1,198	3,248	19.6	1,063	19.7	1,331	61.5	171	11.0	1,849	54.3	

9.0%, 5.3%, 41.3%, 34.5%, 29.7%, 21.5%, 25.9%,
 18.7% 가 , 94 93 91 92
 19.6% 3249 가 , 93 92
 가

(: M/T, %)

1993			1994		
13	0.2		15	0.2	15.4
960	10.3		1,182	12.1	23.1
-	-		100	1.0	-
5,976	63.9		6,708	68.7	12.2
195	2.1		35	0.4	82.1
327	3.5		401	4.1	22.6
1,171	12.5		860	8.8	26.6
118	1.3		175	1.8	48.3
375	4.0		280	2.9	25.4
207	2.2		-	-	-
9,342	100		9,756	100	4.4

(: M/T, %)

1993				1994					
7	0.1	36	0.7	5	0.1	28.6	17	0.3	52.8
-	-	1,091	22.3	-	-	-	860	14.5	21.2
1,633	12.8	1,143	23.3	2,319	18.3	42.0	1,133	19.1	0.9
-	-	16	0.3	-	-	-	-	-	-
2,105	16.6	429	8.8	2,090	16.5	0.7	574	9.7	33.8
2,970	23.4	-	-	2,472	19.5	16.8	-	-	-
-	-	1,295	26.4	-	-	-	1,600	27.0	23.6
-	-	227	4.6	-	-	-	124	2.1	45.4
2,035	16.0	156	3.2	2,521	19.9	23.9	128	2.1	17.9
2,362	18.5	-	-	2,801	22.1	18.6	-	-	-
1,605	12.6	-	-	460	3.6	71.4	-	-	-
-	-	37	0.8	-	-	-	39	0.6	5.4
-	-	38	0.8	-	-	-	35	0.6	5.4
-	-	246	5.0	-	-	-	464	7.8	88.6
-	-	185	3.8	-	-	-	-	-	-
-	-	-	-	-	-	-	177	3.0	-
-	-	-	-	-	-	-	781	13.2	-
12,717	100	100	100	12,668	100	0.4	5,932	100	21.1

가 93 25.6% , ,
 94 39.4% , ,
 93 50% 가 , 94 21.9% 27.0%
 3 ,
 91 90 2 가 , 93 7.6%, 94
 11.4% 가 ,
 , 93 385 43.4% , 94 93 24.9%
 가 481 , 45.2%
 2 35.8% 23.0% 23.3% 244
 , 10% , 94 2815 18.0%
 ,
 Crude
 , 93 60.3% ,
 가 94 63.1% 770 60%
 , , ,
 92 93 92 24.2%, 94 52.2% 가 172
 가

(: M/T, %)

1991				1992				1993				1994			
34,366	39,865	74,231	37,518	46,498	84,016	13.2	47,051	46,269	93,320	11.1	36,345	51,842	88,187	5.5	
35,447	15,177	50,624	39,302	14,900	14,900	7.1	40,243	14,695	54,938	1.4	45,117	16,474	61,591	12.1	

(1993)

(: %)

49.6	43.4	60.3	48.7	52.3	42.8	99.5	100	51.3
25.6	35.8	33.7	26.6	40.1	26.0	0.4		33.5
18.3	20.8	2.8	18.2	4.4	21.6	0.1		8.8
5.6		1.9	6.5	3.1	9.6			6.4
0.9		1.3		0.2				
100	100	100	100	100	100	100	100	100

93 50% , 94 93 68.0% 가
 126 가 73.7%

가

가

가

가

가

30%

가

· DPP ·

ICI ·

Hoechst · Bayer · Ciba- Geigy · DIC

· PCM ·

가

가

(1994)

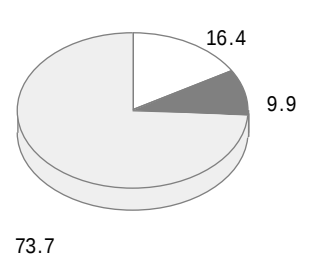
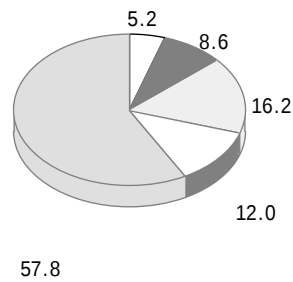
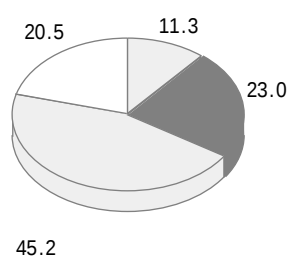
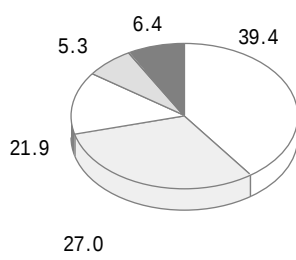
(: %)

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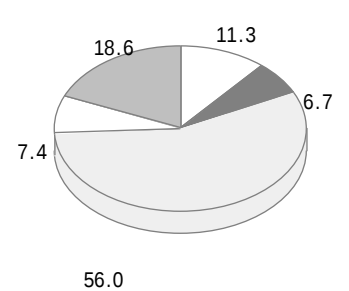
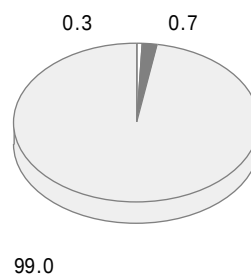
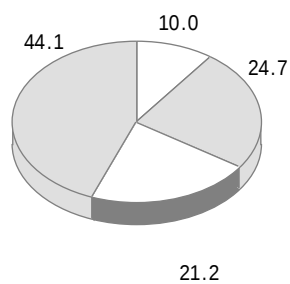
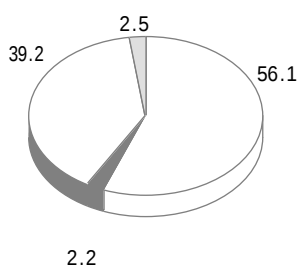


()

()

()

()



)

가 가

가

가

94

가

92 93

가 94

93

19.0% 가

4102

가 93

23.8% 411

22.6% 1810

16.7% 868

13.1% 1013

10 20%

, 93 42.8%

가 94 44.1%

24.7%,

21.2%,

10.0%

가 1%

94

93

16.3%

2 3567

16.8%

2 3337

99.0%

93

99.5%

가

1800.0%

154

37.5%

가

PVC

PVC

가

가

가

가

PVC

Tio2

가

가

가

1500

, 50%

Tio2, 50%

10%

가

가

94

93

21.9%

가 39

8.2%

5006

93 51.3%

94

56.0%

, 1

33.5%

94

18,6%

가

가

가

, 94

가

가가

Ultramarine Blue		()		
Naphthol Carmine FB	O-Anisidine-4-Sulfodiethylamide 5-Chloro-3-Oxy-2' 4'-Dimethoxy-2-Naphthalide			
O-Nitrochlorobenzene		(+)		
Dianisidine	O-		(CI Orange 16, Red 37, Red 19)	
Dianisidine Orange	O-	, Acetoacetanilide		
Diazo Yellow HR	3 · 3'-Dichlorobenzidine. Acetoacet-4'-Chloro-2' 5'-dimethylanilide			
Dioxazine Violet	3- -9-			
3·3'-Dichlorobenzidine Dihydrochloride	O-		Disazo Yellow,	
Lake Red C	C-Acid, B-Naphthol,		Disazo Orange, Pyrazolone Red	
Lake Bordeaux 10B	Tobias Acid Bon Acid,		PS · PE	
Lithol Rubines	6B Acid B-Oxynaphtoic Acid Calcium Chloride		PVC ·	
Molybdate Red	Pb(NO ₃) ₂ , Na ₂ Cr ₂ O ₇ , MoO ₃			
Barium Lithol Red	,	β		
βForm Phthalocyanine Blue				
Benzidine Yellow	3 · 3'-Dichlorobenzidine, AAA, AAOT, AAMX		PVC ·	
Benzidine Yellow AAA	3 · 3'-DCB, Acetoacetate			
Brilliant Carmine 6B	6B-, Bon-			
Brilliant Fast Scarlet	5-Nitro-O-Toluidine, Naphthol AS			
4B-Acid	P-Nitrotoluene,			()
2B-Acid	P-Nitrotoluene,		()	()
Chromium Oxide				
C-Acid			(Lake Red C)	
Aniline Black		()		
Acetoacet-O-Toluidide	O-			()
C.I.Pigment Red 003	m-Nitro-P-Toluidene-B-Naphthol			
αForm Phthalocyanine Blue				
Watchung Red Barium	2B-, Bon ,			
Quinacridone				
Quinizarine	O-		(CI Violet5, 6, 12)	LG

Permanent Red 2B Manganese	2B- , Bon- ,	,	,
Permanent Red 2B Calcium	2B- , Bon- , Calcium Chloride	,	,
Fast Red F5 RK	P- ,		
Phthalocyanine Green	3- -2- -O- , , , , ,		
Pigment Scarlet 3B	, R- ,		
Pyrazolone Orange	3 · 3'-Dichlorobenzidine , , , , ,		
	1-Phenyl-3-Methyl-5-Pyrazidone		

가 가 3가 ,

가 가 .

8.9%, 94 93 , 92 4.5% 가 9757 90 . 93

3320 , 91 7 4231 , 92 8 4016 , 93 9

8187 , 94 가 93 5.5% 8

가 93 18.5% 94 22.1%

23.4% 19.5%

94 19.9%, 18.3%, 16.5% 5

96.3%

, 94 2319 , 42.0%

23.9%, 18.6% 가

93 1605 94 460 71.4%

28.6%, 16.8%, 0.7%

C- Acid 300

가

50%

30%

Ciba-Geigy , 가 가 ,

2B- Acid 80 , 700

가 70%