

PLASTICS MASS BALANCE SURVEY (2006 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	17,355	15,253
Reel Stock/Sheet-NZ Sourced	183	161
Reel Stock/Sheet-Overseas Sourced	1,278	1,123
Regrind (Bought In)	740	650
Regrind (In-House Recycling)	955	839
TOTAL (excl In-House Recycling)	19,556	16,376

^Import Stats^

All PET Resins used in Production as a % of Total Imported PET Resins 112.11 %

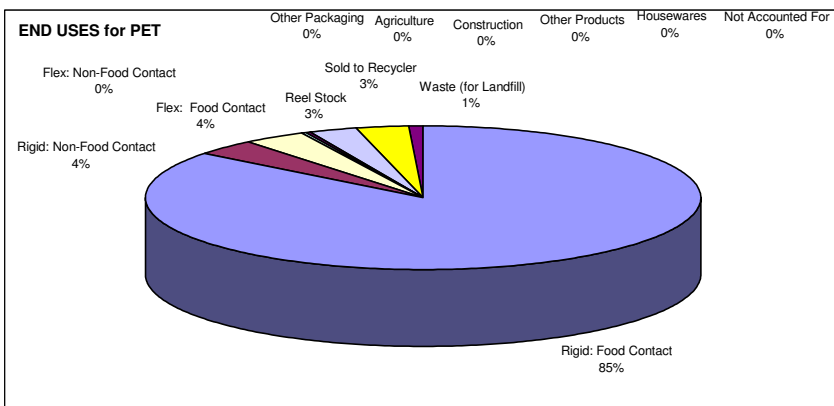
TWEAK RATIO = **0.88**

OUTPUT TONNAGES

END MARKET	TOTAL (Domestic+Ind Exports+Dir Exp)	Extrapolation
Packaging		
Rigid: Food Contact	16,720	14,695
Rigid: Non-Food Contact	727	639
Flex: Food Contact	720	633
Flex: Non-Food Contact	7	7
Other Packaging	57	50
Packaging (sub-total)	18,231	16,024
Construction	0	0
Agriculture	0	0
Reel Stock	548	481
Housewares	2	1
Other Products	29	25
Sold to Recycler	608	535
Sold as Recyclate	1	0
To Waste (Dumped)	137	120
TOTAL (Including Packaging)	19,556	17,187

In-house Recycling = 4.50 %

Recycling (Both from Bought In and In-house) = 8.00 %



DOMESTIC USE	Extrapolation	INDIRECT EXPORTS	Extrapolation	DIRECT EXPORTS	Extrapolation
	15,348	218	192	1,153	1,014
	342	360	316	25	22
	359	316	185	162	154
	7	7	0	0	0
	57	50	0	0	0
	16,114	14,163	763	671	1,354
	0	0	0	0	0
	0	0	0	0	0
	401	352	0	147	129
	0	0	0	1	1
	12	10	5	4	12
	16,527	14,526	768	675	1,515

PLASTICS MASS BALANCE SURVEY (2006 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	34,155	44,631
Reel Stock/Sheet-NZ Sourced	20	27
Reel Stock/Sheet-Overseas Sourced	94	123
Regrind (Bought In)	3,348	4,374
Regrind (In-House Recycling)	3,132	4,092
TOTAL (excl In-House Recycling)	37,617	44,754

^Import Stats^

All HDPE Resins used in Production as a % of Total Imported HDPE Resins 69.33 %

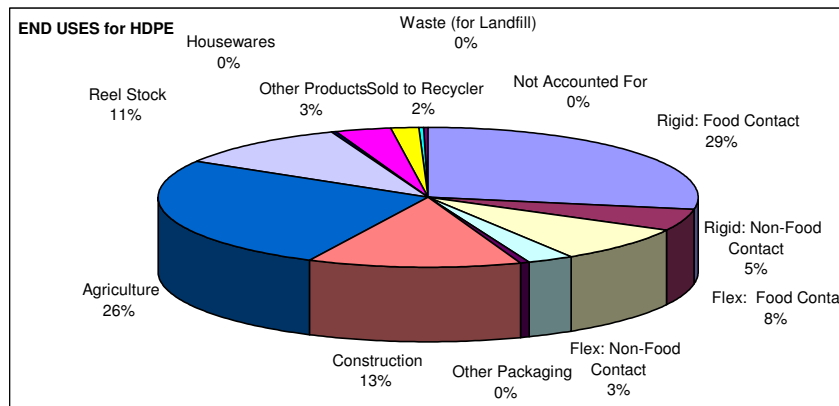
TWEAK RATIO = 1.31

OUTPUT TONNAGES

END MARKET	TOTAL (Domestic+Ind Exports+Dir Exp)	Extrapolation
Packaging		
Rigid: Food Contact	10,425	13,622
Rigid: Non-Food Contact	1,856	2,426
Flex: Food Contact	3,188	4,166
Flex: Non-Food Contact	1,089	1,423
Other Packaging	138	180
Packaging (sub-total)	16,696	21,817
Construction	4,869	6,362
Agriculture	9,859	12,882
Reel Stock	4,037	5,275
Housewares	35	46
Other Products	1,283	1,677
Sold to Recycler	642	839
Sold as Recyclate	82	107
To Waste (Dumped)	115	150
TOTAL (Including Packaging)	37,617	49,155

In-house Recycling = 11.95%

Recycling (Both from Bought In and In-house) = 24.72%



DOMESTIC USE	Extrapolation	INDIRECT EXPORTS	Extrapolation	DIRECT EXPORTS	Extrapolation
	9,107	1,297	1,695	20	27
	1,297	500	653	60	78
	955	2,049	2,678	184	240
	890	0	0	199	260
	137	0	0	0	0
	12,387	3,847	5,026	463	605
	4,529	113	147	227	297
	9,451	2	3	405	529
	2,384	796	1,040	857	1,120
	23	2	3	10	13
	702	121	158	461	602
	29,475	4,881	6,378	2,422	3,165

PLASTICS MASS BALANCE SURVEY (2006 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	34,290	34,805
Reel Stock/Sheet-NZ Sourced	3,309	3,359
Reel Stock/Sheet-Overseas Sourced	1,014	1,029
Regrind (Bought In)	131	133
Regrind (In-House Recycling)	2,214	2,247
TOTAL (excl In-House Recycling)	38,745	35,834

^Import Stats^

All PVC Resins used in Production as a % of Total Imported PVC Resins 98.85 %

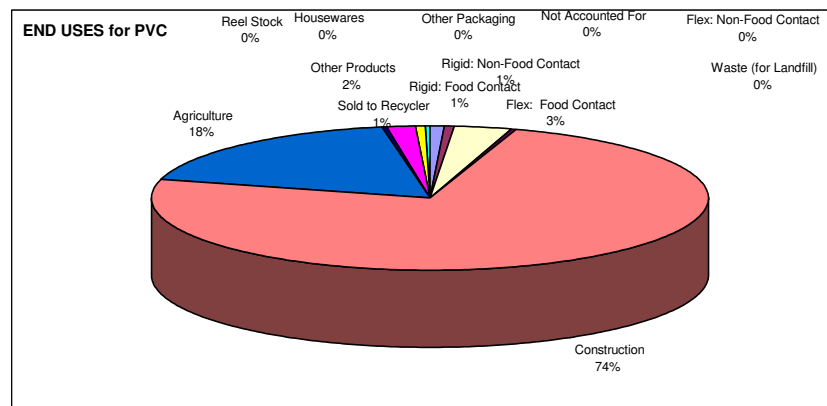
TWEAK RATIO = 1.02

OUTPUT TONNAGES

END MARKET	TOTAL (Domestic+Ind Exports+Dir Exp)	Extrapolation
Packaging		
Rigid: Food Contact	312	316
Rigid: Non-Food Contact	277	282
Flex: Food Contact	1,255	1,274
Flex: Non-Food Contact	0	0
Other Packaging	78	79
Packaging (sub-total)	1,922	1,951
Construction	28,783	29,215
Agriculture	6,968	7,072
Reel Stock	0	0
Housewares	120	122
Other Products	645	655
Sold to Recycler	223	226
Sold as Recyclate	43	44
To Waste (Dumped)	41	41
TOTAL (Including Packaging)	38,745	39,326

In-house Recycling = 6.36 %

Recycling (Both from Bought In and In-house) = 6.74 %



DOMESTIC USE	Extrapolation	INDIRECT EXPORTS	Extrapolation	DIRECT EXPORTS	Extrapolation
308	313	3	3	0	0
190	193	69	70	18	19
1,208	1,226	0	0	47	47
0	0	0	0	0	0
54	54	1	1	24	24
1,760	1,786	73	74	89	90
26,423	26,819	73	74	2,287	2,321
6,838	6,941	10	10	120	121
0	0	0	0	0	0
43	43	78	79	0	0
363	369	110	111	172	174
35,427	35,959	344	349	2,667	2,707

PLASTICS MASS BALANCE SURVEY (2006 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	60,564	78,067
Reel Stock/Sheet-NZ Sourced	1,146	1,477
Reel Stock/Sheet-Overseas Sourced	3,089	3,982
Regrind (Bought In)	8,530	10,995
Regrind (In-House Recycling)	6,422	8,278
TOTAL (excl In-House Recycling)	73,329	82,049

^Import Stats^

All LDPE Resins used in Production as a % of Total Imported LDPE Resins 87.11 %

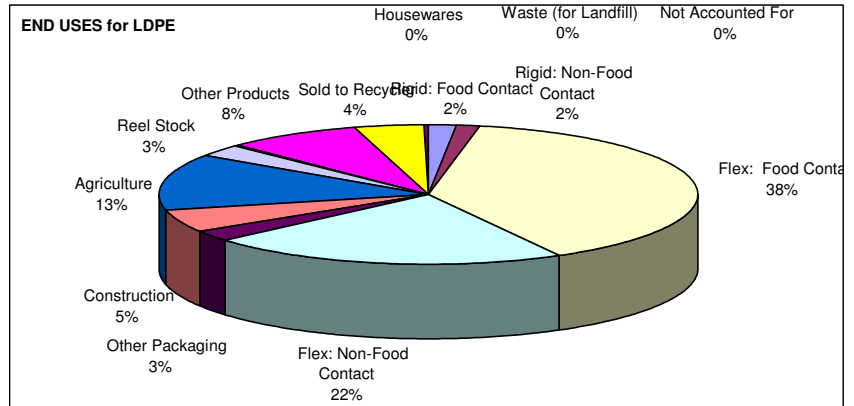
TWEAK RATIO = 1.29

OUTPUT TONNAGES

END MARKET	TOTAL (Domestic+Ind Exports+Dir Exp)	Extrapolation
Packaging		
Rigid: Food Contact	1,141	1,470
Rigid: Non-Food Contact	1,166	1,503
Flex: Food Contact	28,536	36,783
Flex: Non-Food Contact	15,810	20,379
Other Packaging	1,839	2,370
Packaging (sub-total)	48,491	62,505
Construction	3,896	5,022
Agriculture	9,581	12,350
Reel Stock	2,043	2,634
Housewares	163	210
Other Products	5,853	7,545
Sold to Recycler	3,019	3,891
Sold as Recyclate	61	78
To Waste (Dumped)	222	286
TOTAL (Including Packaging)	73,329	94,521

In-house Recycling = 13.01 %

Recycling (Both from Bought In and In-house) = 30.28 %



DOMESTIC USE	Extrapolation	INDIRECT EXPORTS	Extrapolation	DIRECT EXPORTS	Extrapolation
	769	287	370	84	108
	497	97	126	571	736
	14,820	9,220	11,884	4,496	5,796
	13,918	914	1,178	978	1,261
	1,421	16	21	401	517
	31,426	10,534	13,579	6,531	8,418
	3,474	9	11	413	532
	8,914	243	313	424	547
	552	1,128	1,454	364	469
	85	16	21	62	80
	3,395	54	70	2,404	3,099
	47,845	11,985	15,448	10,197	13,145

PLASTICS MASS BALANCE SURVEY (2006 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	18,680	26,020
Reel Stock/Sheet-NZ Sourced	0	0
Reel Stock/Sheet-Overseas Sourced	2,471	3,442
Regrind (Bought In)	1,680	2,340
Regrind (In-House Recycling)	227	316
TOTAL (excl In-House Recycling)	22,831	29,462

^Import Stats^

All PP Resins used in Production as a % of Total Imported PP Resins 60.71 %

TWEAK RATIO = 1.39

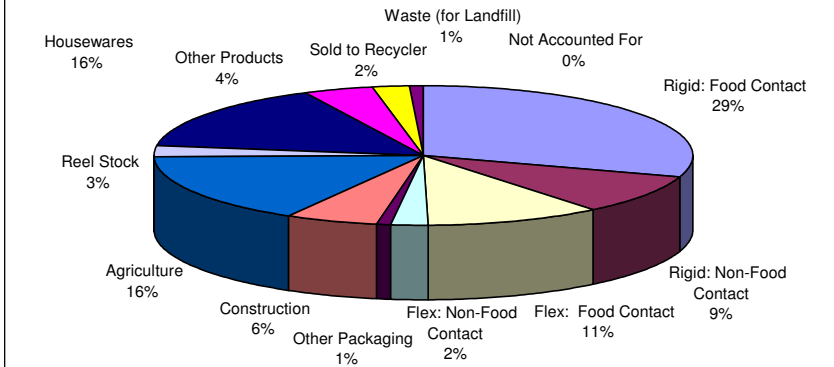
OUTPUT TONNAGES

END MARKET	TOTAL (Domestic+Ind Exports+Dir Exp)	Extrapolation
Packaging		
Rigid: Food Contact	6,874	9,574
Rigid: Non-Food Contact	2,048	2,853
Flex: Food Contact	2,438	3,395
Flex: Non-Food Contact	514	715
Other Packaging	164	228
Packaging (sub-total)	12,037	16,766
Construction	1,278	1,781
Agriculture	3,716	5,176
Reel Stock	630	878
Housewares	3,550	4,945
Other Products	932	1,298
Sold to Recycler	470	655
Sold as Recyclate	4	6
To Waste (Dumped)	213	296
TOTAL (Including Packaging)	22,831	31,802

In-house Recycling = 1.49%

Recycling (Both from Bought In and In-house) = 12.56%

END USES for PP



DOMESTIC USE	Extrapolation	INDIRECT EXPORTS	Extrapolation	DIRECT EXPORTS	Extrapolation
	4,327	346	481	2,201	3,065
	1,121	392	546	535	746
	1,742	304	423	392	546
	380	530	16	117	163
	142	197	22	31	0
	7,713	1,080	1,504	3,245	4,519
	1,098	117	163	63	88
	2,431	21	29	1,264	1,760
	319	84	117	227	316
	2,810	348	484	392	547
	384	240	334	309	430
	14,756	1,889	2,631	5,499	7,660

PLASTICS MASS BALANCE SURVEY (2006 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	4,520	6,953
Reel Stock/Sheet-NZ Sourced	23	35
Reel Stock/Sheet-Overseas Sourced	0	0
Regrind (Bought In)	867	1,334
Regrind (In-House Recycling)	59	90
TOTAL (excl In-House Recycling)	5,409	6,953

^Import Stats^

All PS Resins used in Production as a % of Total Imported PS Resins 46.16 %

TWEAK RATIO = 1.54

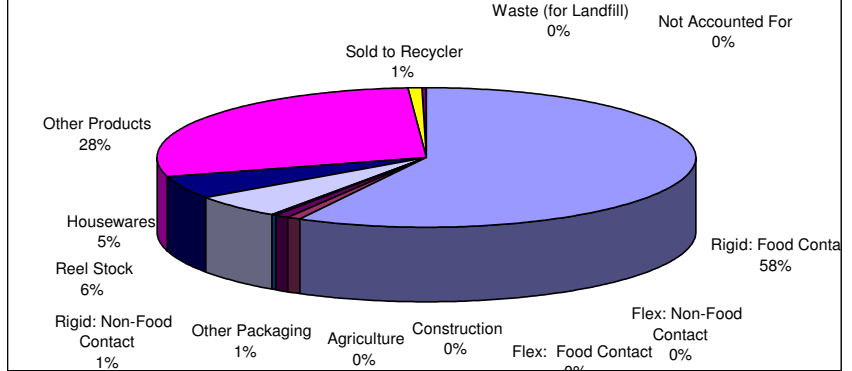
OUTPUT TONNAGES

END MARKET	TOTAL (Domestic+Ind Exports+Dir Exp)	Extrapolation
Packaging		
Rigid: Food Contact	3,131	4,817
Rigid: Non-Food Contact	34	52
Flex: Food Contact	5	8
Flex: Non-Food Contact	0	0
Other Packaging	39	60
Packaging (sub-total)	3,209	4,937
Construction	0	0
Agriculture	23	35
Reel Stock	302	465
Housewares	289	444
Other Products	1,527	2,349
Sold to Recycler	48	74
Sold as Recyclate	0	0
To Waste (Dumped)	11	17
TOTAL (Including Packaging)	5,409	8,322

In-house Recycling = 1.99%

Recycling (Both from Bought In and In-house) = 31.50%

END USES for PS



DOMESTIC USE	Extrapolation	INDIRECT EXPORTS	Extrapolation	DIRECT EXPORTS	Extrapolation
	2,738	100	154	294	452
	26	6	10	2	2
	5	8	0	0	0
	0	0	0	0	0
	39	60	0	0	0
	2,808	4,320	107	164	295
	0	0	0	0	0
	19	30	0	0	3
	81	124	0	0	222
	88	135	12	19	189
	1,342	2,064	14	21	171
	4,337	6,673	133	204	880
					1,354

PLASTICS MASS BALANCE SURVEY (2006 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	7,833	7,344
Reel Stock/Sheet-NZ Sourced	0	0
Reel Stock/Sheet-Overseas Sourced	0	0
Regrind (Bought In)	156	146
Regrind (In-House Recycling)	265	248
TOTAL (excl In-House Recycling)	7,989	7,344

^Import Stats^

All EPS Resins used in Production as a % of Total Imported EPS Resins 106.25 %

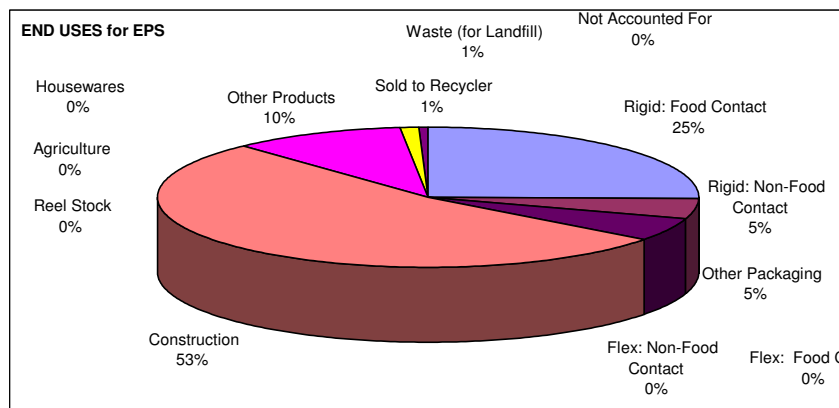
TWEAK RATIO = 0.94

OUTPUT TONNAGES

END MARKET	TOTAL (Domestic+Ind Exports+Dir Exp)	Extrapolation
Packaging		
Rigid: Food Contact	2,021	1,894
Rigid: Non-Food Contact	375	352
Flex: Food Contact	0	0
Flex: Non-Food Contact	0	0
Other Packaging	433	406
Packaging (sub-total)	2,829	2,652
Construction	4,211	3,948
Agriculture	5	5
Reel Stock	0	0
Housewares	0	0
Other Products	812	761
Sold to Recycler	84	79
Sold as Recyclate	0	0
To Waste (Dumped)	49	46
TOTAL (Including Packaging)	7,989	7,490

In-house Recycling = 3.17 %

Recycling (Both from Bought In and In-house) = 5.04 %



DOMESTIC USE	Extrapolation	INDIRECT EXPORTS	Extrapolation	DIRECT EXPORTS	Extrapolation
	1,502	494	464	24	23
	166	209	196	0	0
	0	0	0	0	0
	0	0	0	0	0
	388	45	42	0	0
	2,055	749	702	24	23
	4,026	14	13	170	160
	5	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	812	0	0	0	0
	6,898	763	716	195	182

PLASTICS MASS BALANCE SURVEY (2006 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	14,137	14,631
Reel Stock/Sheet-NZ Sourced	106	109
Reel Stock/Sheet-Overseas Sourced	87	90
Regrind (Bought In)	639	661
Regrind (In-House Recycling)	183	189
TOTAL (excl In-House Recycling)	14,968	14,721

^Import Stats^

All OTHER Resins used in Production as a % of Total Imported OTHER Resins 96.50 %

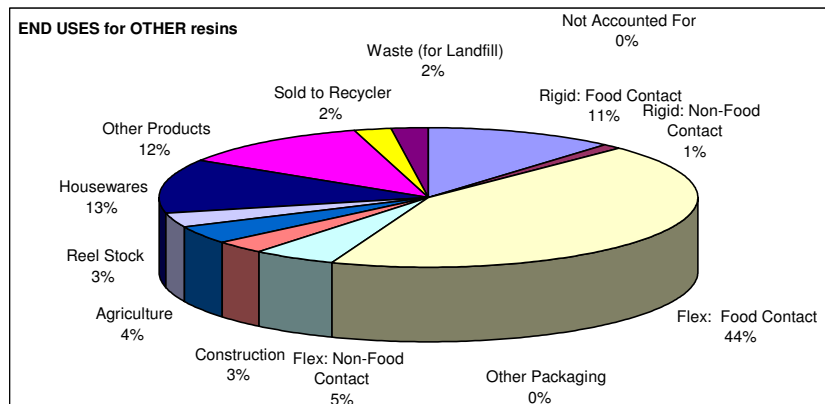
TWEAK RATIO = 1.04

OUTPUT TONNAGES

END MARKET	TOTAL (Domestic+Ind Exports+Dir Exp)	Extrapolation
Packaging		
Rigid: Food Contact	1,703	1,763
Rigid: Non-Food Contact	156	161
Flex: Food Contact	6,500	6,727
Flex: Non-Food Contact	734	760
Other Packaging	15	15
Packaging (sub-total)	9,108	9,427
Construction	462	478
Agriculture	629	651
Reel Stock	485	502
Housewares	1,880	1,946
Other Products	1,728	1,789
Sold to Recycler	350	363
Sold as Recyclate	11	11
To Waste (Dumped)	314	325
TOTAL (Including Packaging)	14,968	15,492

In-house Recycling = 1.33 %

Recycling (Both from Bought In and In-house) = 5.98 %



DOMESTIC USE	Extrapolation	INDIRECT EXPORTS	Extrapolation	DIRECT EXPORTS	Extrapolation
	990	351	363	363	375
	113	32	34	11	11
	1,671	3,186	3,298	1,642	1,700
	367	0	0	367	380
	4	0	0	11	12
	3,144	3,570	3,695	2,394	2,478
	276	23	23	163	169
	215	129	133	286	296
	238	3	3	245	253
	278	812	840	791	818
	612	564	584	553	572
	4,763	5,099	5,278	4,431	4,586

Statistics NZ Code	KGM
3901.10.00.01	650,156
3901.10.00.05	40,545,746
3901.10.00.10	31,874,222
3901.20.00.01	414,811
3901.20.00.09	48,983,077
3901.30.09.00	1,825,840
3902.10.00.00	21,387,597
3902.20.00.00	246,336
3902.30.00.00	13,205,669
3903.11.00.00	7,372,641
3903.19.00.00	9,791,625
3903.20.00.00	118,143
3903.30.00.01	3,354,516
3903.30.00.09	1,954,418
3904.10.00.00	35,713,200
3906.90.09.01	1,269,286
3907.10.01.00	894,409
3907.40.01.00	2,582,805
3907.60.01.00	16,619,403
3908.10.01.00	2,740,212
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TOTAL	241,544,112
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2006 Import Figures

	Kilograms	Tonnes
PET	16,619,403	16,619
HDPE	49,397,888	49,398
PVC	35,713,200	35,713
L/LLDPE	73,070,124	73,070
PP	34,839,602	34,840
PS	9,791,625	9,792
EPS	7,372,641	7,373
OTHER	14,739,629	14,740
TOTAL	241,544,112	241,544