

PLASTICS MASS BALANCE SURVEY (2010 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals	Extrapolation
	(tonnes)	(tonnes)
Virgin resin	17,281	15,077
Reel Stock/Sheet-NZ Sourced	567	495
Reel Stock/Sheet-Overseas Sourced	1,677	1,463
Regrind (Bought In)	80	70
Regrind (In-House Recycling)	1,030	899
TOTAL (excl In-House Recycling)	19,606	16,540

^Import Stats^

All PET Resins used in Production as a % of Total Imported PET Resins **114.62** %

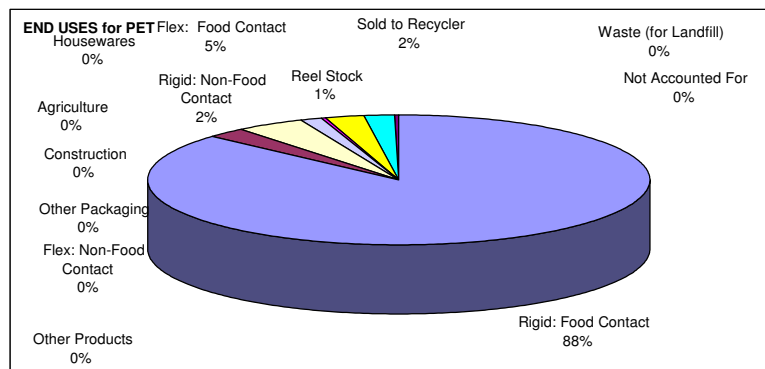
TWEAK RATIO = 0.87

OUTPUT TONNAGES

END MARKET	TOTAL	Extrapolation
	(Domestic+Ind Exports+Dir Exp)	
Packaging		
Rigid: Food Contact	16,990	14,823
Rigid: Non-Food Contact	475	414
Flex: Food Contact	879	767
Flex: Non-Food Contact	10	9
Other Packaging	0	0
Packaging (sub-total)	18,354	16,013
Construction	0	0
Agriculture	8	7
Reel Stock	277	242
Housewares	1	0
Other Products	25	22
Sold to Recycler	481	420
Sold as Recyclate	420	366
To Waste (Dumped)	40	35
TOTAL (Including Packaging)	19,606	17,105

In-house Recycling = **4.74** %

Recycling (Both from Bought In and In-house) = **5.11** %



DOMESTIC USE	INDIRECT EXPORTS		DIRECT EXPORTS	
	Extrapolation	Extrapolation	Extrapolation	Extrapolation
	15,205	1,151	1,004	635
	305	137	119	33
	650	33	29	197
	10	0	0	0
	0	0	0	0
	16,169	1,320	1,152	864
	0	0	0	0
	1	8	7	0
	75	68	60	134
	1	0	0	0
	18	1	1	6
	16,263	1,397	1,219	1,005

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Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	37,057	52,015
Reel Stock/Sheet-NZ Sourced	11	15
Reel Stock/Sheet-Overseas Sourced	0	0
Regrind (Bought In)	1,618	2,271
Regrind (In-House Recycling)	2,104	2,953
TOTAL (excl In-House Recycling)	38,685	52,015

^Import Stats^

All HDPE Resins used in Production as a % of Total Imported HDPE Resins **71.24** %

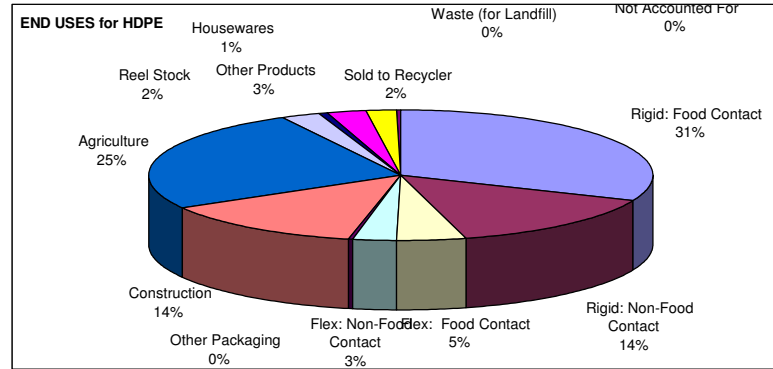
TWEAK RATIO = 1.40

OUTPUT TONNAGES

END MARKET	TOTAL (Domestic+Ind Exports+Dir Exp)	Extrapolation
Packaging		
Rigid: Food Contact	12,142	17,044
Rigid: Non-Food Contact	5,541	7,777
Flex: Food Contact	1,821	2,555
Flex: Non-Food Contact	1,037	1,456
Other Packaging	50	70
Packaging (sub-total)	20,591	28,902
Construction	5,223	7,331
Agriculture	9,824	13,790
Reel Stock	961	1,350
Housewares	247	347
Other Products	978	1,373
Sold to Recycler	725	1,018
Sold as Recyclate	0	0
To Waste (Dumped)	135	189
TOTAL (Including Packaging)	38,685	54,301

In-house Recycling = **7.97** %

Recycling (Both from Bought In and In-house) = **14.10** %



DOMESTIC USE	INDIRECT EXPORTS		DIRECT EXPORTS		
	Extrapolation	Extrapolation	Extrapolation	Extrapolation	
11,859	16,646	229	321	55	77
4,788	6,720	683	959	70	98
370	520	1,382	1,940	68	95
677	951	130	182	230	323
25	35	0	0	25	35
17,719	24,872	2,424	3,402	448	629
4,905	6,885	3	4	315	442
9,585	13,454	0	0	239	336
385	540	0	0	577	809
23	32	224	315	0	0
259	363	160	225	559	785
32,876	46,146	2,811	3,946	2,138	3,001

PLASTICS MASS BALANCE SURVEY (2010 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	57,492	59,448
Reel Stock/Sheet-NZ Sourced	12	12
Reel Stock/Sheet-Overseas Sourced	2,570	2,657
Regrind (Bought In)	4,506	4,659
Regrind (In-House Recycling)	1,721	1,780
TOTAL (excl In-House Recycling)	64,580	62,105

^Import Stats^

All LDPE Resins used in Production as a % of Total Imported LDPE Resins 96.71 %

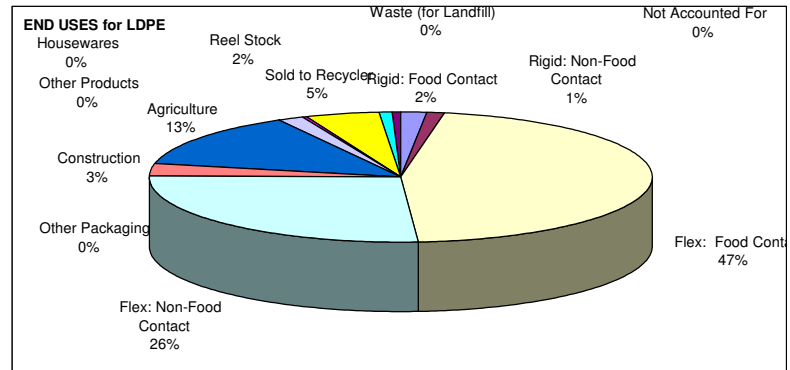
TWEAK RATIO = 1.03

OUTPUT TONNAGES

END MARKET	TOTAL	Extrapolation
	(Domestic+Ind Exports+Dir Exp)	
Packaging		
Rigid: Food Contact	1,062	1,098
Rigid: Non-Food Contact	791	818
Flex: Food Contact	29,766	30,778
Flex: Non-Food Contact	16,998	17,576
Other Packaging	0	0
Packaging (sub-total)	48,616	50,270
Construction	1,988	2,056
Agriculture	8,712	9,009
Reel Stock	1,134	1,173
Housewares	3	3
Other Products	163	169
Sold to Recycler	3,146	3,253
Sold as Recyclate	530	548
To Waste (Dumped)	287	297
TOTAL (Including Packaging)	64,580	66,777

In-house Recycling = 2.96%

Recycling (Both from Bought In and In-house) = 10.72%



DOMESTIC USE	INDIRECT EXPORTS		DIRECT EXPORTS		
	Extrapolation	Extrapolation	Extrapolation	Extrapolation	
951	984	86	88	25	26
707	731	35	36	50	51
12,613	13,042	12,028	12,437	5,124	5,299
15,216	15,734	1,261	1,304	521	538
0	0	0	0	0	0
29,488	30,491	13,409	13,865	5,719	5,914
1,580	1,634	174	180	234	242
8,357	8,642	48	50	307	317
23	24	1,111	1,149	0	0
3	3	0	0	0	0
146	151	5	5	12	13
39,598	40,945	14,747	15,249	6,273	6,486

PLASTICS MASS BALANCE SURVEY (2010 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	13,316	28,346
Reel Stock/Sheet-NZ Sourced	200	425
Reel Stock/Sheet-Overseas Sourced	1,640	3,492
Regrind (Bought In)	478	1,018
Regrind (In-House Recycling)	192	409
TOTAL (excl In-House Recycling)	15,634	31,838

^Import Stats^

All PP Resins used in Production as a % of Total Imported PP Resins = 46.98 %

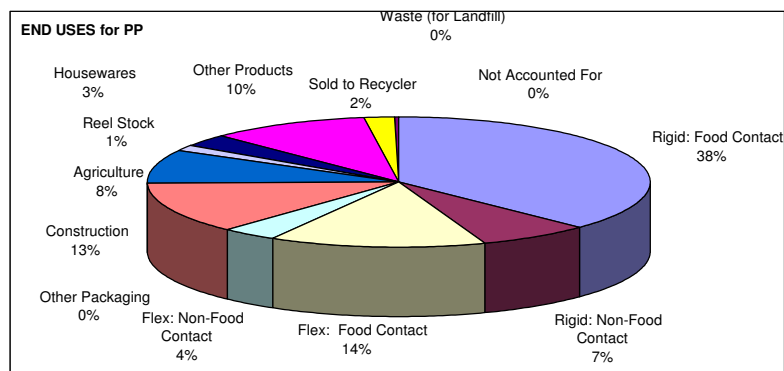
TWEAK RATIO = 2.13

OUTPUT TONNAGES

END MARKET	TOTAL (Domestic+Ind Exports+Dir Exp)	Extrapolation
Packaging		
Rigid: Food Contact	5,810	12,368
Rigid: Non-Food Contact	1,123	2,391
Flex: Food Contact	2,182	4,644
Flex: Non-Food Contact	567	1,207
Other Packaging	1	3
Packaging (sub-total)	9,683	20,613
Construction	1,997	4,252
Agriculture	1,288	2,741
Reel Stock	214	456
Housewares	477	1,015
Other Products	1,628	3,467
Sold to Recycler	291	619
Sold as Recyclate	0	1
To Waste (Dumped)	55	117
TOTAL (Including Packaging)	15,634	33,281

In-house Recycling = 2.73 %

Recycling (Both from Bought In and In-house) = 9.54 %



DOMESTIC USE	Extrapolation	INDIRECT EXPORTS	Extrapolation	DIRECT EXPORTS	Extrapolation
	3,442	217	462	2,150	4,578
	1,084	23	48	16	34
	1,571	383	814	228	486
	451	25	54	91	193
	1	0	0	0	0
	6,550	648	1,379	2,485	5,291
	1,941	4	9	52	111
	1,188	32	67	68	145
	164	0	0	50	107
	414	47	100	16	35
	582	942	2,005	105	224
	10,839	1,672	3,559	2,777	5,912

PLASTICS MASS BALANCE SURVEY (2010 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	8,995	10,774
Reel Stock/Sheet-NZ Sourced	59	71
Reel Stock/Sheet-Overseas Sourced	0	0
Regrind (Bought In)	39	47
Regrind (In-House Recycling)	1,493	1,788
TOTAL (excl In-House Recycling)	9,093	10,774

^Import Stats^

All PS Resins used in Production as a % of Total Imported PS Resins = 83.49 %

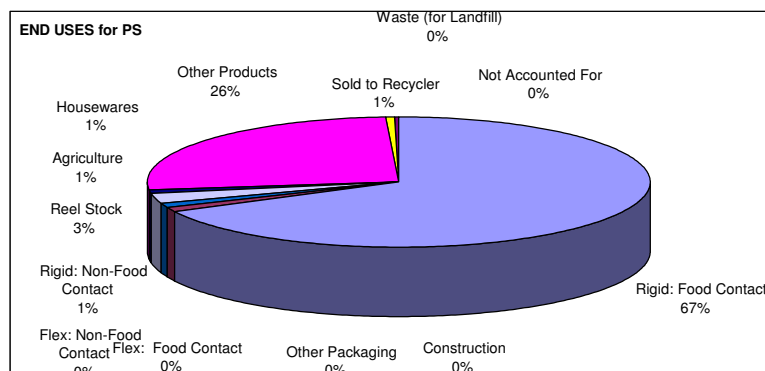
TWEAK RATIO = 1.20

OUTPUT TONNAGES

END MARKET	TOTAL (Domestic+Ind Exports+Dir Exp)	Extrapolation
Packaging		
Rigid: Food Contact	6,136	7,349
Rigid: Non-Food Contact	105	125
Flex: Food Contact	0	0
Flex: Non-Food Contact	0	0
Other Packaging	0	0
Packaging (sub-total)	6,240	7,474
Construction	0	0
Agriculture	107	128
Reel Stock	229	275
Housewares	56	67
Other Products	2,374	2,843
Sold to Recycler	55	66
Sold as Recyclate	0	0
To Waste (Dumped)	31	38
TOTAL (Including Packaging)	9,093	10,891

In-house Recycling = 19.88 %

Recycling (Both from Bought In and In-house) = 20.40 %



DOMESTIC USE	Extrapolation	INDIRECT EXPORTS	Extrapolation	DIRECT EXPORTS	Extrapolation
	4,092	115	138	1,928	2,309
	80	2	2	23	27
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	4,172	117	140	1,951	2,337
	0	0	0	0	0
	105	2	3	0	0
	222	8	9	0	0
	11	13	0	46	55
	2,062	184	220	127	153
	6,572	311	372	2,124	2,544

PLASTICS MASS BALANCE SURVEY (2010 PRODUCTION) - SUMMARY FOR ALL RESINS

INPUT TONNAGES

Input	Survey Totals (tonnes)	Extrapolation (tonnes)
Virgin resin	5,266	6,905
Reel Stock/Sheet-NZ Sourced	0	0
Reel Stock/Sheet-Overseas Sourced	0	0
Regrind (Bought In)	127	167
Regrind (In-House Recycling)	135	177
TOTAL (excl In-House Recycling)	5,393	6,905

^Import Stats^

All EPS Resins used in Production as a % of Total Imported EPS Resins **76.26** %

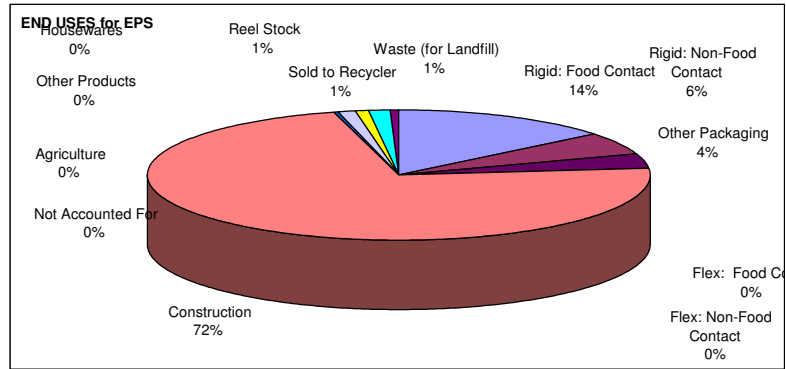
TWEAK RATIO = 1.31

OUTPUT TONNAGES

END MARKET	TOTAL	Extrapolation
	(Domestic+Ind Exports+Dir Exp)	
Packaging		
Rigid: Food Contact	765	1,003
Rigid: Non-Food Contact	300	394
Flex: Food Contact	0	0
Flex: Non-Food Contact	0	0
Other Packaging	197	258
Packaging (sub-total)	1,261	1,654
Construction	3,914	5,132
Agriculture	4	6
Reel Stock	65	85
Housewares	0	0
Other Products	4	6
Sold to Recycler	47	61
Sold as Recyclate	63	83
To Waste (Dumped)	34	45
TOTAL (Including Packaging)	5,393	7,072

In-house Recycling = **3.36** %

Recycling (Both from Bought In and In-house) = **6.52** %



DOMESTIC USE	INDIRECT EXPORTS		DIRECT EXPORTS		
	Extrapolation	Extrapolation	Extrapolation	Extrapolation	
482	632	282	370	0	0
250	328	50	66	0	0
0	0	0	0	0	0
0	0	0	0	0	0
81	106	116	152	0	0
813	1,066	448	588	0	0
3,768	4,941	95	124	51	67
4	6	0	0	0	0
65	85	0	0	0	0
0	0	0	0	0	0
4	6	0	0	0	0
4,655	6,104	543	712	51	67

Statistics NZ Code	KGM
3901.10.00.01	1,396,000
3901.10.00.05	39,435,000
3901.10.00.10	21,274,000
3901.20.00.01	697,000
3901.20.00.09	51,318,000
3901.30.09.00	1,588,000
3902.10.00.00	19,310,000
3902.20.00	369,000
3902.30.00.00	12,159,000
3903.11.00.00	6,905,000
3903.19.00.00	10,774,000
3903.20.00.00	53,000
3903.30.00.01	2,615,000
3903.30.00.09	1,953,000
3904.10.00.00	25,337,000
3906.90.09.01	994,000
3907.10.01.00	563,000
3907.40.01.00	1,246,000
3907.60.01.00	16,540,000
3908.10.01.00	1,965,000
3908.10.01.00	0

TOTAL	216,491,000
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2010 Import Figures

	Kilograms	Tonnes
PET	16,540,000	16,540
HDPE	52,015,000	52,015
PVC	25,337,000	25,337
L/LLDPE	62105000	62,105
PP	31,838,000	31,838
PS	10,774,000	10,774
EPS	6,905,000	6,905
OTHER	10,977,000	10,977
TOTAL	216,491,000	216,491