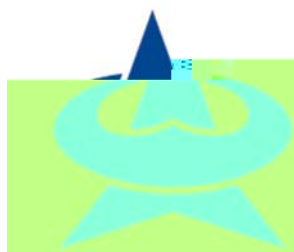




Zhejiang Weixing New Building Materials Co.,Ltd.



1138



A

6,340

1.00

17.97

2010 3 8

25,340

36

25%

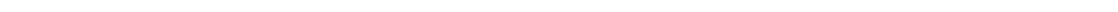
6

12

50%

2010 1 28





36
25%
6 12 50%
60
60
2009 12 31 8,339.72
2009

	PPR	PE	PE-RT	PB
2007	84.58%	80.22%	76.70%	
2009				



2008

2008

PPR PE

2009

2008

1

2008

15%

2008

2009

849.58

1,091.12

2

2007 1-6

2007 7 1

100%

100%

1-1-5



	2007	2009	
	1,300.17	176.22	245.53
14.86%	1.85%	1.85%	

PPR PE

2007	2009	5
53.60%	51.41%	51.81%



2004

2008 9 12

2008 108

109,324.8

52%

12.50%

“

”



.....	3
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.....	98
.....	113
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		267
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		267
		270
		270
		270
		271
		272
		272
3.2	PPR	276
2.5	PE	290
1.5		303
		313
		315
		317
		318
		321
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		322
		323
		323
		323



.....	329
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.....	336



PE100	10.0MPa
HDPE	PE
MDPE	PE
PE-RT	
PE-X	
PB	
PB4237	
PB4235	
PBR509	
	C H PP PE PB
PVC	PVC U-PVC C-PVC
U-PVC	PVC
PVC-C C-PVC	
ABS	- -
AGR	
GRP	
PPR/AI	PPR PPR PPR PPR PPR PPR
F-PPR	PPR PPR
MPP	MPP
PE-RT	PE-RT PE-RT PE-RT
PE-RT	PE-RT EVOH EVOH
PAP	PE



PSP	PE
XPAP	PE-X
PE	PE 5% PE
PE	PE PE PE
	HDPE-RT



1999 10 12
2007 12 10

2007 10 31 198,321,712.40 1.0438 1
190,000,000 1

[2007] 138 2007 12 20
331082000006575

19,000

		%
	9,880	52.00
	6,080	32.00
	1,425	7.50
	950	5.00
	475	2.50
	190	1.00
	19,000	100.00

PPR

PE

HDPE



PB

PPR

100

PE

“ ”

PE

/

1200mm HDPE

500-1200mm

HDPE

2008

PPR

PE

HDPE

1.52

1.53

0.50

2008

5.85%

3.06%

3.13%

2009

PPR

PE

HDPE

1.61

2.09

0.61

“

”

“

”

“

”

“

”

16,800

52%

2009

12

467,210.70

87,859.64

2009

6,419.56

“

”

“

”



33262165*****

15

33262163*****

15

“

”

[2010]150

	2009 12 31	2008 12 31	2007 12 31
	359,790,568.65	381,709,377.02	346,843,196.57
	148,756,026.59	115,248,060.92	115,517,339.26
	121,764,386.97	124,764,429.42	39,407,822.38
	653,415,699.97	648,646,185.80	510,735,176.51
	295,469,626.55	325,325,785.19	262,546,782.70
	54,000,000.00	-	20,000,000.00
	349,469,626.55	325,325,785.19	282,546,782.70
	303,946,073.42	323,320,400.61	228,188,393.81
	303,946,073.42	323,320,400.61	228,188,393.81

	2009	2008	2007
	930,713,753.34	896,656,654.54	700,526,121.16
	566,302,362.34	614,076,061.74	484,202,574.62
	159,176,711.37	105,455,097.83	113,380,489.60
	164,421,703.73	115,315,235.20	118,797,950.94
	132,625,672.81	95,132,006.80	87,419,136.36
	132,625,672.81	95,132,006.80	87,487,341.17



	-	-	-68,204.81
	-	-	-18,865,135.07
	132,625,672.81	95,132,006.80	68,554,001.29



A

1.00

6,340

25.02%

17.97 /

35.24

1	3.2	PPR	26,577.60	[2008]17
2	2.5	PE	14,486.37	[2008]16
3	1.5		7,536.03	[2008]18
			48,600.00	



A

1.00

6,340

25.02%

17.97 /

26.43

2009

35.24

2009

1.60

2009 12 31

5.51

2009 12 31

11.23

3.26

A

113,929.80

109,257.5550

3,148.2450

434



120

970

0576-85225086

0576-85305080

G G

¥ ¥



0571-88216841

0571-88216880

128 6

0571-88216967

0571-88216860

1093

18

0755 25938000

0755 25988122

22001450100059111777

1	2010	3	1	~2010	3	3
2	2010	3	5			
3	2010	3	8			
4						



PPR PE PE-RT PB

PE-RT PB

2009 2007

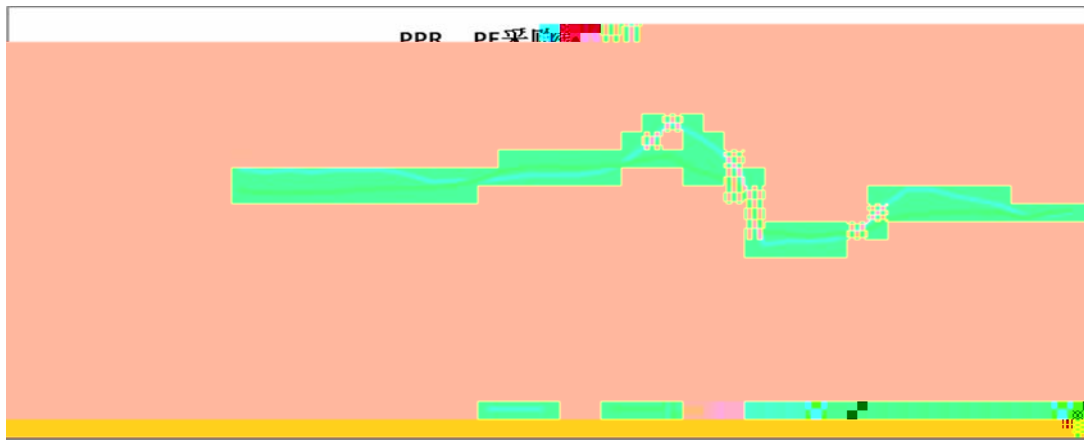
80.22% 76.70% 84.58%

2008

2008

PPR PE

2009 2008 2008





1
2008

	15%	2008	2009
849.58	1,091.12		

2

	33001101072	33001101050
2007	1-6	

[2007]92	
[2007]67	2007 7 1

100%

	2007 7 1
2007 6 29	



100%

100%

3

	2009	2008	2007
	13,262.57	9,513.20	8,748.73
	187.25	119.29	922.80
	-	-	264.01
	58.28	56.93	113.36
	-	-	-
	1,091.12	849.58	-
	11,925.92	8,487.40	7,448.56
	1,336.65	1,025.80	1,300.17
	10.08%	10.78%	14.86%
	30,394.61	32,332.04	22,818.84
	29,057.96	31,306.24	21,518.67
	41.45%	34.50%	29.35%
	38.07%	31.36%	25.55%

1

2

2007

33% 2007



PPR PE

3,177.17

32,877.53

2007	2009	5
53.60%	51.41%	51.81%



2007 2008

HDPE

PB

PPR

PE

90%

2007 2008 2009
54.34% 49.77% 52.03% 2008 2009



1.17 1.22

0.71 0.70

2009 12 31

15,319.23

42.58% 23.44%

2009 12 31

11,182.85

17.11%

2004

“ ”

“

”

“

”

“

”

“

” 2008 9 12

2008 108

109,324.8

1-1-31



52%

12.50%





Zhejiang Weixing New Building Materials Co.,Ltd.

19,000

1999 10 12

2007 12 20

317000

0576-85225086

0576-85305080

<http://www.china-pipes.com>

wxxc@china-pipes.com

2007 12 10

2007 10 31

198,321,712.40

1.0438 1

190,000,000

1

[2007] 138

2007 12 20

331082000006575

19,000

“

”



1999 10 12
2001 6 2004 6 2007 10 2007 12
2007 12 20
1 1999 10 12
1999 9 28 [1999]106
1999 9 29
[1999]29 1999 9 29
800 1999
10 12
3310821006636 800

			%
		720	90
		80	10
		800	100

1999 12 21
2000 3 10
2 2001 6 19 2,800
2001 6 1
2,800
2001 6 8 [2001]182
2001 6 4 2,000
2,800 1,800
200
2001 6 19
2,000



,

					%
	720		1,800	2,520	90
	80		200	280	10
	800		2,000	2,800	100

3 2004 6 21

5,800

2004 6 10

3,000

2,800

5,800

2003

2,500

500

2004 6 16

[2004]141

2004 6 14

3,000

500

2,500

2004 6 21

3,000

,

					%
	2,520		2,700	5,220	90
	280		300	580	10
	2,800		3,000	5,800	100

2005 1 27

4 2007 10 16

2007 10 16

580

2007 10 16

9%



1 / 522 1%

1 / 58 2007

10 22

				%
	5,220	522	5,742	99
	0	58	58	1
	580	-580	-	-
	5,800	-	5,800	100

5 2007 12 4

2007 12 4 2007

10 31 47%

32% 7.5%

5% 2.5%

2007 10 31

		%			
	18,560,000	32.00	3.42	63,462,947.97	
	4,350,000	7.50	3.42	14,874,128.43	
	2,900,000	5.00	3.42	9,916,085.62	
	1,450,000	2.50	3.42	4,958,042.81	
	27,260,000	47.00	-	93,211,204.83	-

2007 12 4



					%
1		5,742	-2,726	3,016	52.00
2		0	1,856	1,856	32.00
3		0	435	435	7.50
4		0	290	290	5.00
5		0	145	145	2.50
6		58	-	58	1.00
		5,800	-	5,800	100

6 2007 12 20

2007 12 10

2007 10 31

198,321,712.40

1.0438:1

190,000,000

8,321,712.40

2007 12 10

2007 12 14

[2007] 138

2007 12 13

2007 10 31

198,321,712.40

1.0438 1

190,000,000

1

8,321,712.40

2007 12 16

2007

2007

12 20

331082000006575

PPR

PE

HDPE

PB



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2008 3

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2007 10 31

1.0438 1

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5

HDPE

PB

PPR

PE

2007 12 20

2007 10

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11

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14

20 -

99%

52%

14

14

14

14

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1



2003 3 4
70% 30% 1,000

2007 10
2

1994 3 26 100
2000
200 2000 2
10%

“ ” 90% 2002
1,200 1,080 , 90%,
120 , 10% 2005 1
2005

2007 10
2
1

2002 7 29
90% 10% 50 2001 5
90% 2005 12 10%

2007 10
2

2006 11 17
51% 49% 50

2007 10
3



1999	12	7			
			49%	51%	80
2002	7		49%		2004
5			41%		10%
		90%	10%		
2007	10				
4					
2004	7	5			
90%	10%		50		
2007	10				
5					
2006	12	5			
	55%	45%	50		
2007	10				
6					
2005	8	9			
90%	10%		50		
2007	10				
7					
2007	1	17			
	90%	10%	50		
2007	10				
8					
2001	6	12			



51% 49% 50
2002 7 51% 2004
10 39% 10%

90% 10%

2007 10
9
2002 9 10

90% 10% 50
2004 7 90%
10% 2007 9
10%



2003 9

80% 20% 50
2008 5

2007 10

2009 12

14

14

3

14

14

14

14

2007 9 30

	1			70%	1,979.63
				30%	848.41
	2			90%	6,785.94
				10%	753.99
	3			90%	5.64
				10%	0.63
	4			51%	42.18
				49%	40.53



	5			90%	7.91
				10%	0.88
	6			90%	0.00
				10%	0.00
	7			55%	31.05
				45%	25.40
	8			90%	18.61
				10%	2.07
	9			90%	53.54
				10%	5.95
	10			90%	41.54
				10%	4.62
	11			90%	41.50
				10%	4.61
	12			90%	20.47
				10%	2.27
	13			70%	0.0001
				30%	0.0001
	14			80%	80.00
				20%	20.00
					10,817.37

1

1

2007 10

14

2

2007 10

14

3



2007 10

14

2

2007 10

14

2007 10 31 14

1

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2006

	70,375,863.86	118,721,997.08	6,452,825.55	-
	65,190,777.93	31,361,055.83	14,763,031.80	14,742,695.51
	12,937,818.65	88,946,561.05	1,243,208.72	1,198,917.85
[1]	472,834.74	-	-30,745.76	-
	29,623,884.61	141,541,190.66	93,220.82	85,427.73
	13,929,697.68	47,326,161.30	-1,472,053.54	-841,183.82
[2]	500,000.00	-	-	-
	10,030,905.11	34,232,704.06	-553,975.53	-362,199.87
[3]	-	-	-	-
	11,851,030.64	54,852,654.48	784,919.25	316,292.63
	3,209,018.21	12,120,969.66	-171,926.67	-134,677.76
	3,069,267.80	14,398,769.08	-886,256.48	-831,063.65
	5,722,470.39	14,902,904.18	-313,785.91	-319,720.39
	10,119,421.20	159,068,166.46	209,584.01	199,561.36
	237,032,990.82	717,473,133.84	20,118,046.26	14,054,049.59
	391,236,862.91	319,430,882.43	26,348,602.02	-

1 2006 11

2 2006 12

3 2007 1



2

2006

	2006 12 31	2006	2006
	15,977.79	14,861.95	246.74
	39,123.69	31,943.09	2,634.86
	40.84%	46.53%	9.36%

2

14

3

14



1999	9	29			
[1999]	29		1999	9	29
	800				
1	2001	6	8		
[2001]	182		2001	6	4
2,000			2,800		2001
	1,800			2001	6
	6	4			1
					2001
	2	2004	6	16	
[2004]	141		2004	6	14
					3,000
		500		2,500	
	2007	12	14	[2007]	138
	2007	12	13		
2007	10	31		198,321,712.40	
			1.0438	1	190,000,000
					1
8,321,712.40					
1					
				16,800	
	2009	12		467,210.70	87,859.64
2009			6,419.56		
					52%



2

1 1976

1976 9 29

2,000

2 1982

1982 6 9

1653

117.02

117.02

3 1986

1986 6 23

350

0680

1989 9 21

433.2



> 1993 2 10 [1993]73
1993 12 27
[1994]2 1994 3 12
1994 7 30
[94]83 1994
6 30 4,021.53
1994 8 2

31

			%				%
1		435.18	16.77	17		81.88	3.15
2		65.14	2.51	18		75.32	2.90
3		113.54	4.37	19		70.66	2.72
4		61.80	2.38	20		67.03	2.58
5		82.35	3.17	21		65.01	2.50
6		69.67	2.68	22		74.63	2.88
7		64.60	2.49	23		66.58	2.57
8		60.59	2.33	24		61.89	2.38
9		60.24	2.32	25		72.16	2.78
10		99.71	3.84	26		79.50	3.06
11		72.35	2.79	27		61.23	2.36



1995 48 “
2,595.28 ”1995 3 9
2008 12 8 [2008]66
2008 12 17 , [2008]89
6 1996
1996 2,823.84
31 228.5620
1996 3
1996 1 8
7 1998
1998 2 ,
5 34 34
34 “
”
5,961.7208
2,785.0350 34
352.8438
[1998] 410
1998 11 13
8 1999
1999 6,501.6919
379.3600 33
160.6111



		[1999]	384					1999
9	13							
				1999	12	21		
	9	2001						
2001	8	3		9,769.2179				
		2,955.3060				312.2200		
			[2001]	254				2001
8	3							
	10	2004						
	2004		13,443.7882					
2,702.5555				34				972.0148
		[2004]	252				2004	12 17
	11	2006						
2006	12	19		15,394.3957				
		1,373.7495				34		
		576.8580						
			[2006]	2576				
2006	12	19						
	12	2008						
2008	5	22		16,800		34		
		180.7876				1,197.4600		
		27.3567						
							1,650,130	1,750,392
984,397		1,869,875	1,500,470					
						[2008]	127	
		2008	5	22				



34

1995 2008 9

1995

1995

			%				%
1		19,824,000	11.80	19		3,718,538	2.21
2		16,484,066	9.81	20		3,718,265	2.21
3		14,868,000	8.85	21		3,668,166	2.18
4		7,652,456	4.56	22		3,532,007	2.10
5		7,573,451	4.51	23		3,530,977	2.10
6		4,278,981	2.55	24		3,523,463	2.10
7		4,252,126	2.53	25		3,489,435	2.08
8		4,235,232	2.52	26		3,461,865	2.06
9		4,127,010	2.46	27		3,415,000	2.03
10		4,120,877	2.45	28		3,409,154	2.03
11		4,102,348	2.44	29		3,351,282	1.99
12		4,051,515	2.41	30		3,298,261	1.96
13		4,008,802	2.39	31		1,758,000	1.05
14		3,981,505	2.37	32		1,742,000	1.04
15		3,973,394	2.37	33		1,723,004	1.03
16		3,922,414	2.33	34		1,716,000	1.02
17		3,747,282	2.23			168,000,000	100.00
18		3,741,124	2.23				

3

1	33262165** *****	1			-
		2			
		3			
		4			
		5			
		6			



			7		
			8		
			9		
			10		
			11		
			12		
			13		
			14		
2		33262148** *****			
3		33262163** *****	1		-
			2		
			3		
			4		
			5		
			6		
4		3326211942 *****			
5		3326211951 *****			
6		3326211965 *****	1		
			2		
7		3326211966 *****	1		-
			2		
			3		
8		3326211961 *****	1		-
			2		
			3		
9		1201031940 *****			
10		3326211963 *****			
11		3326211969 *****	1		
			2		
			3		



12		3326211969 *****			
13		3326211965 *****	1		
			2		
14		3326211959 *****	1		
			2		
15		3301041967 *****	1		-
			2		
			3		
			4		
16		3326211958 *****			-
17		3326211964 *****			
18		3326211963 *****			
19		3326251964 *****			
20		3326211967 *****	1		
			2		
			3		
21		3326211944 *****			
22		3326211963 *****			
23		3326211936 *****			
24		3326211938 *****			
25		33262158** *****	-	-	-
26		3301041959 *****			
27		3326211964 *****	1		
			2		
28		33262133** *****			
29		3326211963 *****			
30		3326211969 *****			
31		33262162** *****			



32		3326211962 *****			
33		3326211965 *****			
34		3326211954 *****	-	-	-

1

14

2007 11 1

8,000

			%
1		1,460	18.25
2		1,010	12.63
3		720	9.00
4		520	6.50
5		520	6.50
6		520	6.50
7		510	6.38
8		510	6.38
9		510	6.38
10		430	5.38
11		420	5.25
12		330	4.13



2009 12 31

57,230.42

14,370.09

2009

4,540.45

2

14

				-
	3301061968*			

3

			1
			2

15 7.5%

15 5%

1250 2.5%



3 1201 1%

4

	3326211962			

7.5%

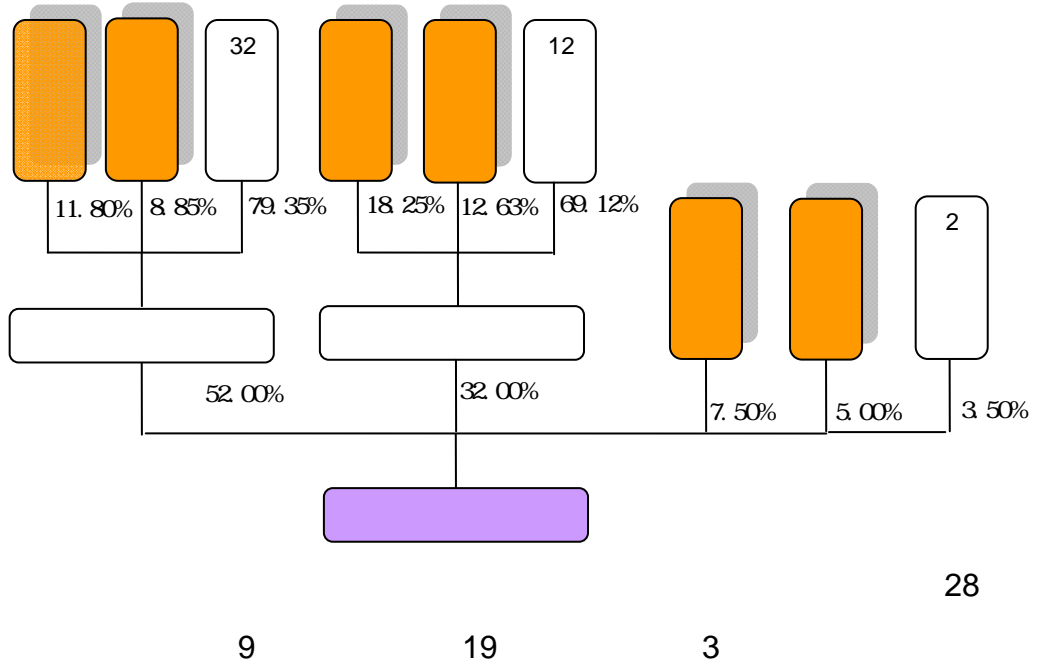
5%

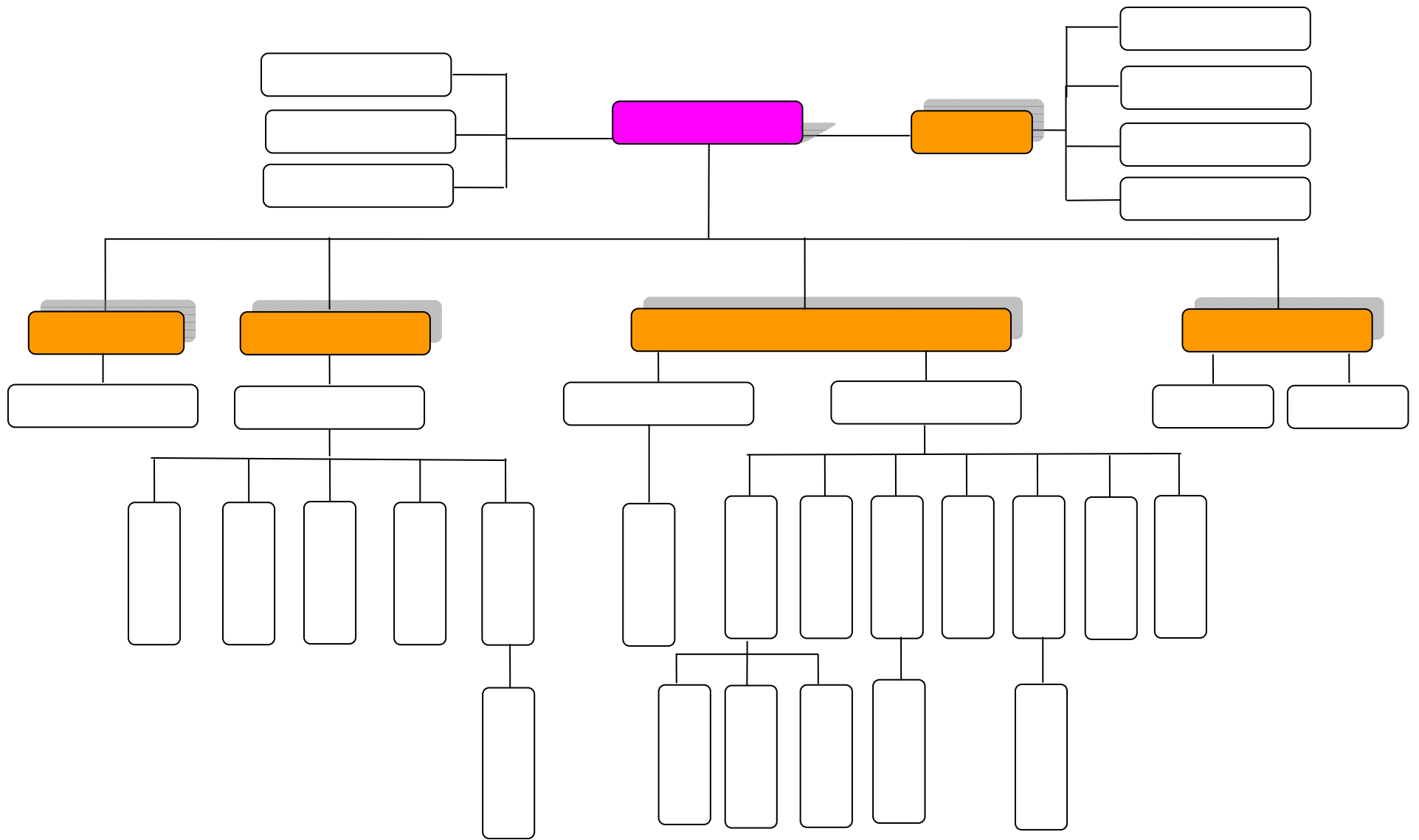
11.80% 8.85%

18.25% 12.63%

“

”







1

1

1		1988.05.11	201,245,920			29.36%	
2		2001.05.18	40,500,000			90.00%	
3		2003.09.02	100,000,000			49.00%	
4		2004.04.09	100,000,000			49.00%	
5		1998.05.21	60,000,000 ₆			83.33%	
6		1997.10.29	15,000,000			89.00%	
7		1999.09.09	40,000,000	252		90.00%	
8		2002.06.13	10,000,000	252 23		90.00%	
9		2001.06.13	10,000,000	60 304-4		90.00%	

2

2009

1		146,771.29	95,751.54	17,498.11	
2		26,679.16	4,272.50	69.76	
3		41,775.38	8,745.01	-499.04	
4		31,509.58	9,829.04	-170.96	
5		30,104.45	15,595.24	-37.18	
6		1,899.60	1,891.23	-42.70	



7		5,791.06	3,774.04	-132.85
8		731.52	644.81	50.87
9		4,203.91	863.70	-45.45

2

1

			()			
1		1998.11.09	2,000,000			
2		1990.11.05	10,000,000			
3		2002.11.22	500,000 ()	4601		
4		2002.11.25	15,000,000			
5		2006.06.08	4,000,000	1133		
6		2004.12.16	50,000,000			
7		2003.09.19	10,000,000	6		
8		2000.03.10	20,000,000	6		
9		2003.07.24	18,500,000			
10		2003.11.07	10,000,000	36		

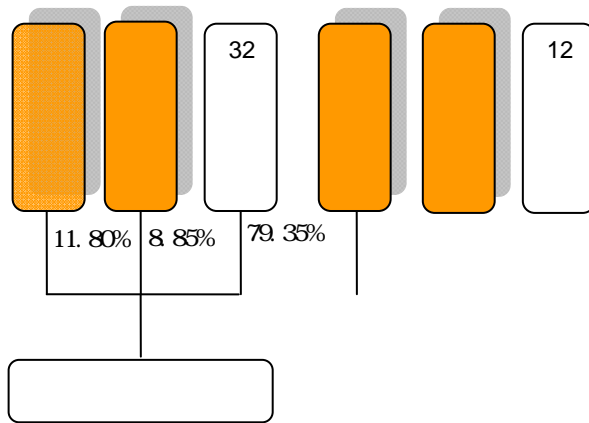
11 1qTMiTg!†† ifqYh 1qžø7 ""s ifqYh ^1qžø7 ' ^1qžø7 ~†# ó•1Yhr' žøFrqTMrqŽøF •†d '\$/± Y Ab K'ò œ^



13		1997.09.25	5,000,000	252 13A		
14		2005.04.07	3,000,000	2		



18		43,347.63	11,746.24	1,059.37
19		442.07	-494.36	148.42





2009

15

3

12

1

				/		
	1		2000.03.10		1,200	
	2		2003.03.04		1,000	
	3		2007.06.11		3,000	
	4		2002.07.29		50	
			2006.11.17		50	

1999.12.07

252

80

23 D

S A! sVnň " ñ rï#rD g5fi T ñ rï2



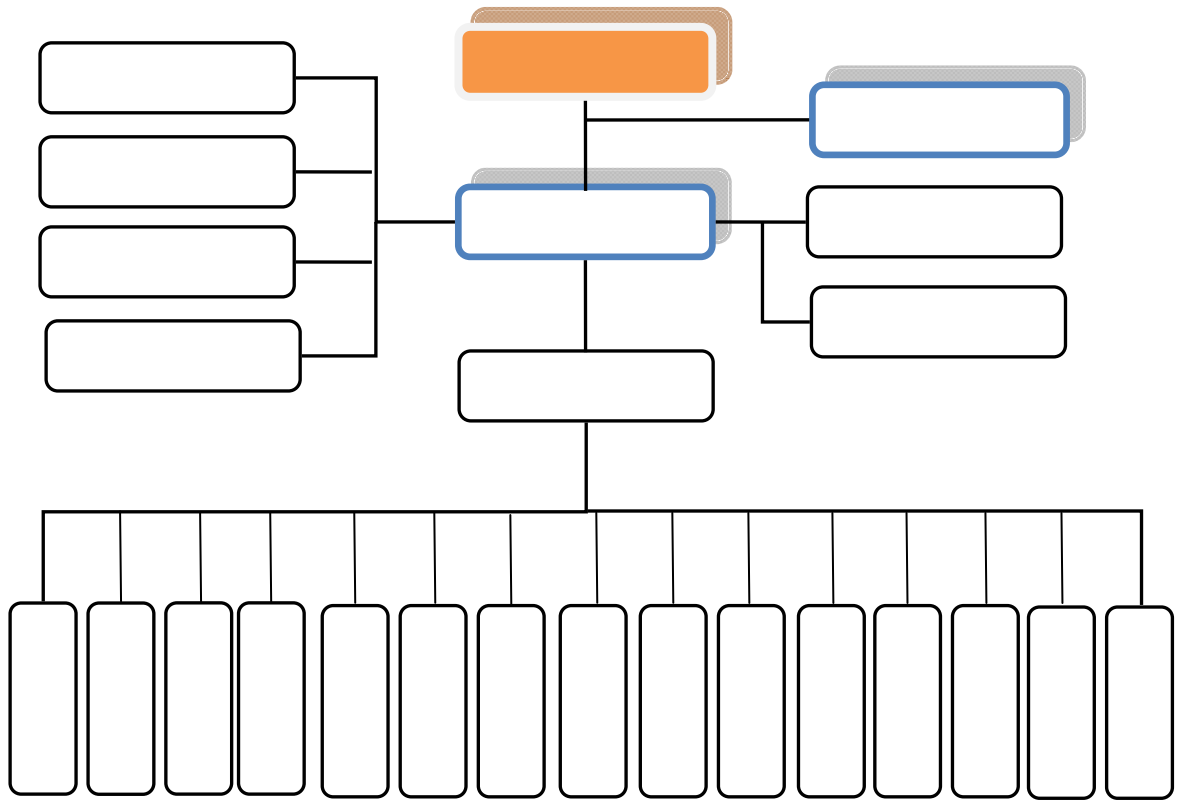
11		2001.06.12	6 2 1105	50	
12		2002.09.10	55	50	
13		2005.06.10	23 27-6	50	
14		2004.09.03	25#	50	
15		2008.07.31	100 1 903	50	

2

2009

			2009 12 31 /2009		
	1		3,631.94	2,707.98	957.00
	2		7,591.73	4,302.26	2,749.71
	3		8,960.07	4,543.20	154

3Tj /TT5



“

”

1		
2		
3		
4		
5		



6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		6S
17		

6,340

		%		%
	9,880	52.00	9,880	38.99
	6,080	32.00	6,080	23.99
	1,425	7.50	1,425	5.62
	950	5.00	950	3.75
	475	2.50	475	1.87
	190	1.00	190	0.75
	-	-	6,340	25.02



	8	0.48%
	214	12.78%
	648	39.07%
	804	47.67%
	1,674	100.00%
51	14	0.84%
41 50	144	8.60%
31 40	412	24.13%
30	1,104	66.43%
	1,674	100.00%

2010 1 25

2006

2010 1 25

“

2006 4 28



2009 12 31

”

“

”

“

”



1999

PPR

PE

HDPE

PB

PPR PE PB

1

1

1994

2/3

2

1989



2

1

1999 11

“

‘ ’

U-PVC PE

PPR

”

“ ”

2010

2005

50

25

50

45

2010

80

70

30

80

DN400mm

70

70

60

90

2

1		1999.11



2		1999.11
3	109	2001.11
4	[2002]222	2002.09
5	218	2004.03
6	“ ” [2006]315	2006.12
7	“ ” 659	2007.06
8	[2008]95	2008.05
9	[2008]147	2008.08
10	530	2008.10

GB/T13663-2000

PE

GB/T18742-2002

GB/T19472.1-2004

CJ/T175-2002

PE-RT

CJ/T250-2007

HDPE

CJJ101-2004

GB50366-2005

GB/T

50349-2005



1994

1999

1

U-PVC PE PPR PB

U-PVC PE PPR

20 90

2

PVC

PE

PP

PB

ABS

PVC	U-PVC	
	U-PVC	
	U-PVC	
	U-PVC	
	PVC	



	C-PVC	
PP	PPR PPB	
	PPH	
	MPP	
	PP	
PE	PE	
	PE	
	PE	
	PE-X	
	PE-RT	
	PE	
	PE	
PB	PB	
ABS	ABS	

3

1936

1939

KWD-globalpipe 227

1,600

2010

1,800

PVC

PE PP

PVC PE PP

Lars-Eric Jansson

1993

2001

PP

8% PE

6% PVC

1%

4

1

“ ”



20 90

“ ” 2010

2007

331.8 2006 15.17% 2008
459.3 2007 38.43% 5%

2

2000

2007 331.8
332

2007

	WOB	WIB	DIB	DOB	GAS	CDT	AGC	IDT	
	83.00	40.00	46.00	53.00	10.00	53.00	22.00	25.00	332.00
	25.00%	12.05%	13.86%	15.96%	3.01%	15.96%	6.63%	7.53%	100.00%
PE	30.00	12.00	1.50	20.50	10.00	25.00	10.00	5.00	114.00
PVC	42.00	5.00	44.00	26.50	-	25.00	11.00	5.00	158.50



GRP	8.00	-	-	5.00	-	-	-	8.00	21.00
	-	1.00	-	-	-	-	-	4.00	5.00

25%

16%

16%

13.86%

12.05%

PVC

PPR PE PB

20%

1

1

2000

2008

450

2

2008

1

100

3

2008

459.3

91.87

85.29

52.17

4

“

”

2

1



2008

20

100

20

*	PVC	PE	PP
	PAP		
*	PVC	PE	PP
*	PE	PP	PB
*	PVC	PE	
*	PVC		
*	PVC	PE	
*	PE		
*	PAP	PE	
*	PVC	PE	
*	PE	PP	PAP
*	PVC		
	PE	PA	
	PVC	PE	
	PE		
	PE		
	PVC	PE	
	PE		
	PE	PVC	
	PVC	PE	
	PVC	PE	

* 2008 " "

2

1973

PPR

PPR

1971

PPR



1874

17

1802

PB

PE-RT

PE

PPH

PVC

1998

PB

PE

3

1

2

3



4

1-4 2003

6 1

“ PE ”

5

4

1

1990 20

2000 80

15%

2000

2 2008

459.3

2000-2008

	2000	2001	2002	2003	2004	2005	2006	2007	2008
	78.60	121.40	136.90	163.80	190.70	236.70	288.10	331.80	459.30
%	-	54.45	12.77	19.65	16.42	24.12	21.72	15.17	38.43

	2002	2003	2004	2005	2006	2007	2008
	6.80	8.72	12.12	18.83	22.43	29.20	35.63



	-	28.24%	38.99%	55.36%	19.12%	30.18%	22.02%
	4.97%	5.32%	6.36%	7.96%	7.79%	8.80%	7.76%

2

2009-2010

15%

2011-2015

5%

2010

600

2015

750

2001-2015

	2001	2002	2003	2004	2005	2006	2007	2008	2010	2015
	121.40	136.90	163.80	190.70	236.70	288.10	331.80	459.30	600.00	750.00
%	54.45	12.77	19.65	16.42	24.12	21.72	15.17	38.43	14.30	4.56

15

6.34

13

2008

459.3

3.5

13

824.2

2015

750

5.77

Freedonia group, Inc.,

14

2006-2011

2.4%

5

PPR PE PE-RT

U-PVC



1
1

1999

2000 10 10
“ ” 2010 2010
“ ” 2007
659 “ ”

2
1 GDP 10%
“ ”
15%
2 “ ” “ ”
2005-2010 “ ” 43% 47% 0.8% “ ”
10 30-40
70%

3
9,748
2
2015 2005 96%



4 2005
51.95% “ ” 70%
30% “ ”
“ ” 162,724
2,085

5

6

7 2009 2011 4

8 2009 2009
9,080

2009 1,300
6,000 500

3

4



PE-RT PB

2010

2

1

“ ”

2

2005

PE PPR

2008

3

1

“ ”

300

1-1-87



“ ”

80

20

2

1

PPR/Al

PPR/

PB

PE-RT

PB

PE-RT

PPR

99.9%

PE

PP

PE

2

PE-RT

50um

EVOH



3

30-50%

PE

U-PVC

PE



PE-RT

PE
PE

HDPE

20%





PE-RT PB

PVC PE PP

2008

PVC

PE PP 2007

2001-2008 PVC PE PP

	2001	2002	2003	2004	2005	2006	2007	2008
PVC	288	339	401	503	649	824	972	882
PE	312	355	413	441	529	599	629	690
PP	323	374	427	475	523	584	713	733

2001-2008

2010

PVC PE PP

1,500

900

1,300

“

” PVC

“ ”

PVC

PVC

100

“ ”

PE PP

2

2006

2008

PE PP

PVC

2008

2009

2

“

”



1999

PPR PE HDPE PB

2007 2008

		2007			2008		



PPR
2003 30% 4 2007 55% 22
PPR 1999 2008
1.52 5.85% 2009 PPR 1.61
PPR

2 PE

PE 2000

2000 PE
2008 PE 1.53 3.06%
2009 PE 2.09 PE

PE

2003 PE
2003 PE

PE-RT PEX XPAP PB PE-RT
2004

PE-RT

3 HDPE

800km

HDPE



				HDPE
U-PVC		HDPE		
	HDPE			2004
	2008	HDPE		0.50
3.13%		2009	HDPE	0.61
4				
1				
	5			57
15		3	12	
	40			



F-PPR “

” HDPE “

”

PP

SN16

2 “ ”

“ ” “ ” “ ” “ ”

“ ” “ ”

2005

” “

3

2009 12 30

600

13,600

800

4 “ ”

PPR

PE PB HDPE



2,000

5

ISO9001

ISO14001

PPR

PE

“ ”

PE

/

1200mm

500-1200mm

PE

HDPE

HDPE

MPP

6

“

”

“

”

“

”

“

”



PPR

PE

HDPE

PB

PPR

PE

PPR	PPR	
	F-PPR	
	PPR/AI	
PE	PE	
	PE /	
	PE	
	PE-RT	
HDPE	HDPE	
PB	PB	
	PB	

1 PPR

PPR

50

PPR

PPR

F-PPR

PPR

PPR

PPR

PPR/AI

PPR



2 PE

PE

PE

PE

PE-RT

PE

/

PE

PE

/

PE

PE-RT

3 HDPE

HDPE

4 PB

PB

PPR PE-RT PEX

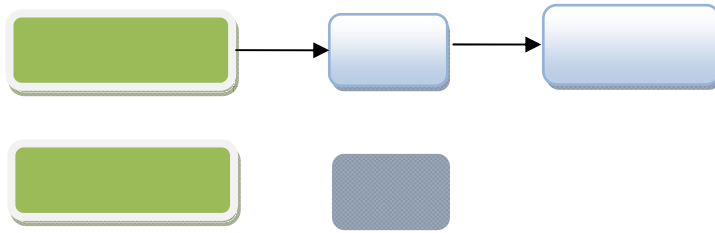
“ ”

BASELL

PB

20%

1 PPR

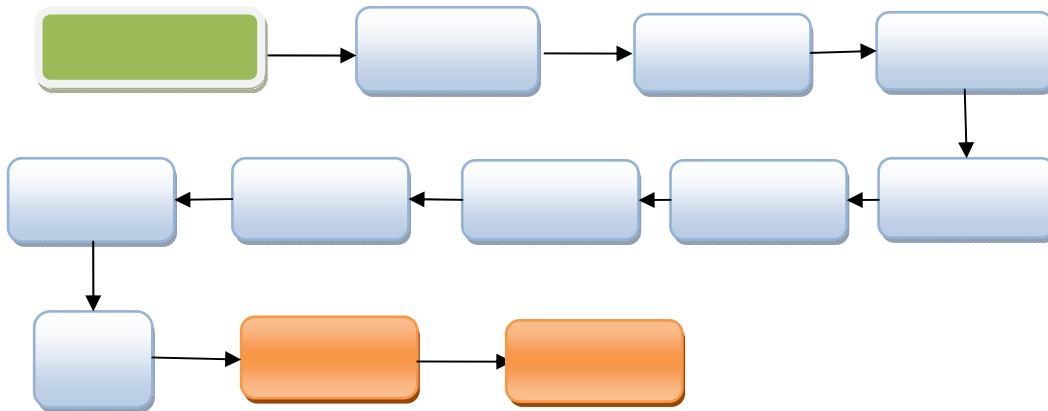


F-PPR

PPR

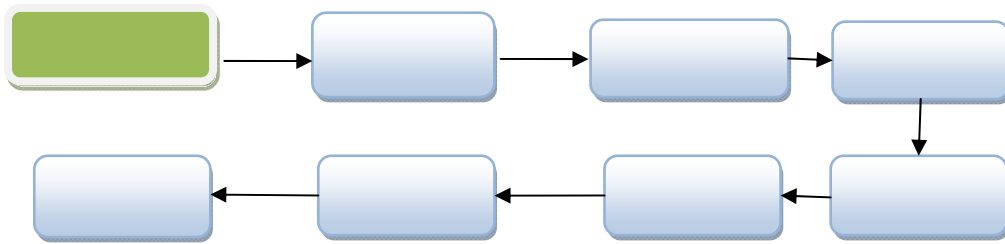
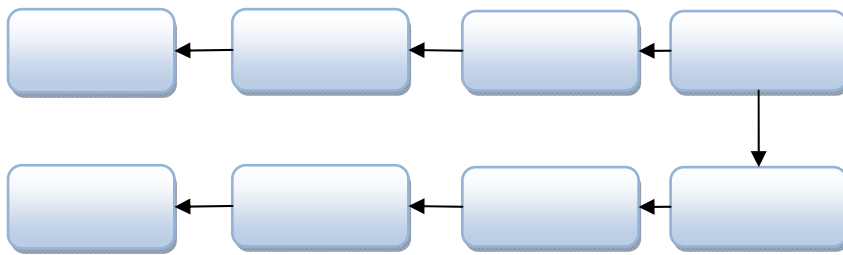
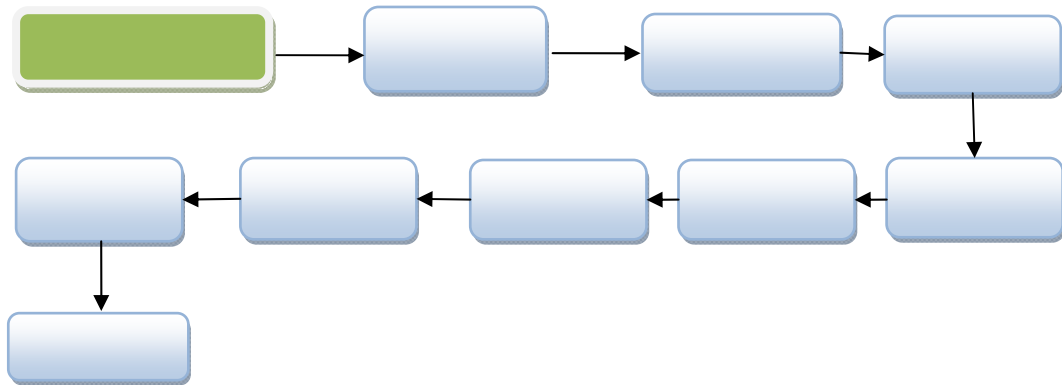
PPR

PPR

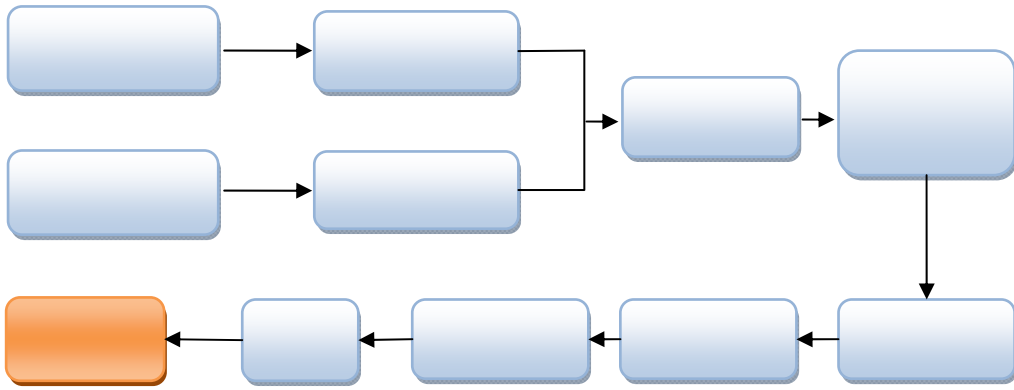


2 PE

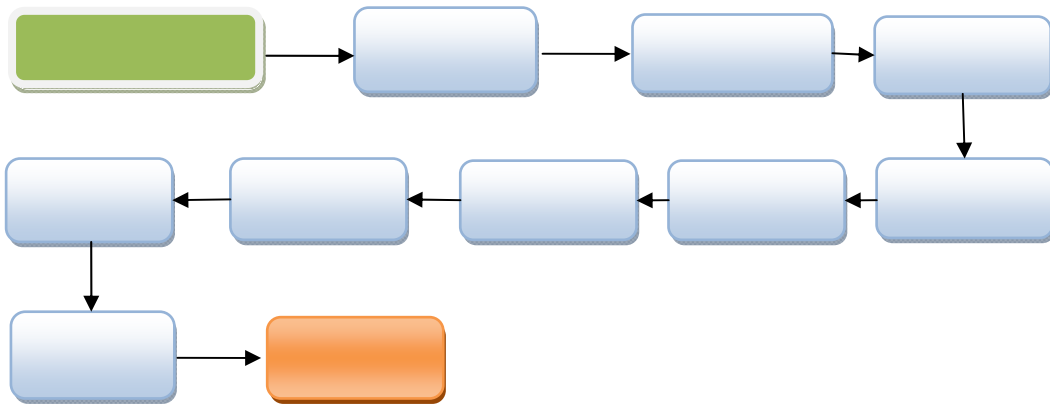
PE



3 HDPE



4 PB



1

1

PE PPR

PB PE-RT

2007



2

		30-90

2

“ ” “

”

30 60

3

1

“ ” “ ”

2009

999

6,230



7,395

13,625

2007

2008

2009

69.76% 68.39%

65.15%

ERP

2007

2008

2009

30.24% 28.29% 32.39%



	2	3	1 30-45	
	10-30%		70-80%	
		95-97%	3-5%	

4

1

2008

2008 2009

3.32 % 2.46%

2

	1	TT 30%	
	2	DP 30%	

1 TT 30%

30%

70%

2 DP 30%

30%

70%

1



	2009	2008
--	------	------



	4,672.60	5.10	4,163.46	4.80	3,395.16	5.14
	3,450.99	3.77	3,109.78	3.59	2,025.06	3.06
	2,646.84	2.89	2,974.96	3.43	2,005.31	3.04
	2,251.30	2.46	2,876.63	3.32	-	-
	91,658.10	100.00	86,693.01	100.00	66,095.21	100.00

4

/

	2009	2008	2007
PPR	24,192.93	27,349.85	22,297.59
%	-11.54	22.66	6.87
PE	16,210.99	18,822.14	16,172.17
%	-13.87	16.39	8.47
HDPE	11,883.47	14,564.59	12,882.15
%	-18.41	13.06	12.81
PB	54,313.55	60,824.47	54,757.09
%	-10.70	11.08	6.45

5

50%

				%
2009		PE	1,391.96	1.50
		PPR PE PB	982.33	1.06
		PPR PE	956.13	1.03
		PPR PE	919.41	0.99
		PPR PE	850.54	0.91
			5,100.37	5.48



2008		PPR PE PB	980.59	1.09
		PE	980.29	1.09
		PPR PE	924.16	1.03
		PPR PE HDPE	851.65	0.95
		PPR PE	842.79	0.94
				4,579.47
2007		PE	1,345.60	1.92
		PPR PE	1,156.30	1.65
		PPR PE	851.87	1.22
		PPR PE PB	847.91	1.21
		PPR PE PB	802.19	1.15
				5,003.87

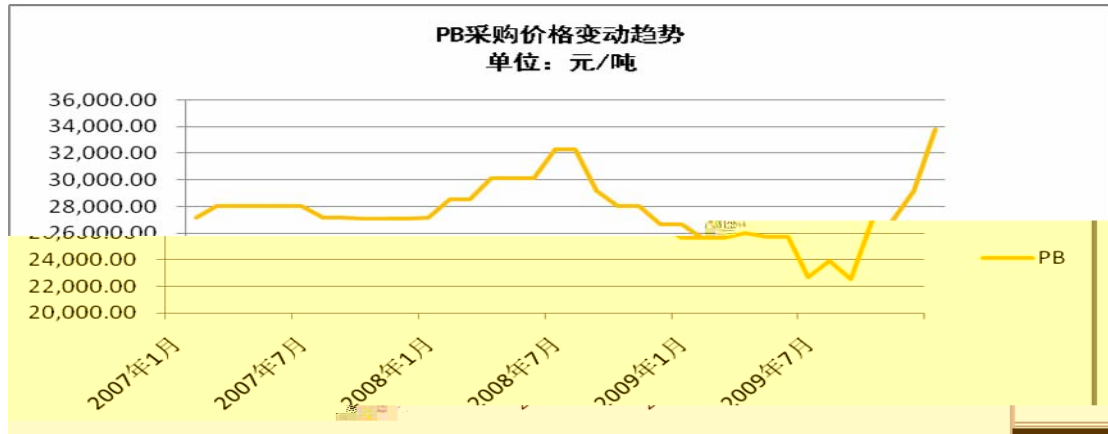
5%

1

PPR PE PB

	/		
	2009		
PPR	8,993.85	13,422.48	12,071.97
PE	8,332.58	28,532.88	23,775.24
PB	23,941.43	682.73	1,634.54
	38,034.20	1,181.33	4,493.10





2009

PB

4

1

50%

				%
2009		PPR PE	10,497.61	19.83
	Basell Asia Pacific Limited	PPR PE PB	5,878.58	11.11
		PE	4,193.00	7.92
		PPR	3,849.73	7.27
		PE	3,002.32	5.67
				27,421.25
2008		PE	9,568.36	16.91
		PPR	8,236.40	14.56
		PPR PE	5,048.66	8.92
		PPR	3,342.85	5.91
		PE	2,891.43	5.11
				29,087.70
2007		PPR PE PB	10,675.70	19.96
		PPR	8,123.44	15.19
		PE	5,705.72	10.67



		PPR	2,528.71	4.73
		PE	1,629.81	3.05
			28,663.37	53.60

5%

2

2007

2009		2008		2007	
	%		%		%
-	-	1,501.58	2.65	10,675.70	19.96

“ ”

”

5

2009			2008	
		%		



2007		
		%
	262.59	41.51
	58.72	9.28
	46.80	7.40
	35.88	5.67
	34.92	5.52
	438.91	69.38

5%

1

2

PP PE

[2003]101

2005 6

2006

2009

GB/T24001-2004 idt ISO14001:2004

ISO14001

[2003]101

2008 5 6



1 “ ”

600 13,600

“ ”

2 “ ”

3 400 60

“ ”

4

1

2009 12 31

					%
			7		42.07
			16		47.54
			1		50.47



			3		86.33
			22		35.57
			1		40.07
			1		35.42
			4		57.26
			1		51.27
			30		60.43
			10		69.43
			13		68.43
			5		76.85
			12		75.26
			10		75.74
			20		58.38
			3		51.37
			3		76.25
			7		86.62
			10		87.12
			2		80.21

2

1

11

29,403.44

1

88.80%

	130826				5 15,601.55	
	130827				5 8,304.64	
	130828				1 5,497.25	

2008 2 22

2002 1309

37,864.58



4,227.67

93698

2005 55

23,258,602

15,583,908

2008 5 26

2008 4

6



2008 4 17

2004



2

9,530

6,675

5

2007

5

10

2012

5

9

914,800

2005

2006

“

”

“

”

2008 9 12

109,324.8

2008

108

“

1



”

2004

1

3

1

2009 12

121,020,185.02

1	2008	1570	95,722.57	2001.12.07-2051.12.06		
2	2008	5307	111,418.58	2008.2.27-2058.2.26		
3	2008	5308	11,879.77	2008.2.27-2058.2.26		
4	2008	108	109,324.80	2058.7.29		

1

2008 2

2

123,298.35

5,525



50

2008 5307 2008 5308

2

122,827 109,324.80

13,502.2 2008 5 28

2008-009 2008

9 12 [2008 108

109,324.8] 50

3,270

2

2008 3 6 7

1

2008 9 16

5349883 2009 1 21

7 8

1	1045216		19	1997.7.7- 2017.7.6
2	1134146		19	1997.12.14- 2017.12.13
3	1148790		17	1998.2.7- 2018.2.6
4	1692871		19	2002.1.7- 2012.1.6



5	3180163		17	2003.7.28- 2013.7.27

19

6 3473731



1			773970	ZL 2005 2 0101234.1	2005.3.28	2006.4.19	10
2			860417	ZL 2006 2 0100547.X	2006.1.23	2007.1.17	10
3			884643	ZL 2006 2 0100545.0	2006.1.23	2007.3.28	10
4			900005	ZL 2006 2 0100548.4	2006.1.23	2007.5.9	10
5			914818	ZL 2006 2 0100546.5	2006.1.23	2007.6.20	10
6			938137	ZL 2006 2 0107094.3	2006.8.25	2007.8.22	10
7			944252	ZL 2006 2 0107095.8	2006.8.25	2007.9.5	10
8			1181456	ZL 2008 2 0088039.3	2008.5.30	2009.2.25	10
9			1182387	ZL 2008 2 0088040.6	2008.5.30	2009.3.4	10
10			1182384	ZL 2008 2 0088041.0	2008.5.30	2009.3.4	10
11			1182391	ZL 2008 2 0088042.5	2008.5.30	2009.3.4	10
12			1182385	ZL 2008 2 0088050.X	2008.5.30	2009.3.4	10
13		PPR	1182379	ZL 2008 2 0088241.6	2008.6.4	2009.3.4	10
14		PE	1207003	ZL 2008 2 0088760.2	2008.6.13	2009.4.22	10
15			1207005	ZL 2008 2 0088758.5	2008.6.13	2009.4.22	10
16			1242374	ZL 2008 2 0138415.5	2008.9.18	2009.6.24	10
17			1242059	ZL 2008 2 0138418.9	2008.9.18	2009.6.24	10
18			764425	ZL 2004 2 0081805.5	2004.8.13	2006.3.8	10
19			967953	ZL 2006 2 0047801.4	2006.11.14	2007.10.31	10



20	/	982885	ZL 2006 2 0047754.3	2006.11.14	2007.11.28	10
21		1118206	ZL 2007 2 0198969.X	2007.12.6	2008.10.22	10
22		1207698	ZL 2008 2 0151069.4	2008.7.21	2009.4.22	10
23		1208174	ZL 2008 2 0150522.X	2008.7.3	2009.4.22	10
24		1234563	ZL 2008 2 0150523.4	2008.7.3	2009.6.10	10
25		1249269	ZL2008 2 0121158.4	2008.7.9	2009.7.8	10
26		1276048	ZL 2008 2 0138417.4	2008.9.18	2009.9.9	10
27		1276049	ZL 2008 2 0138416.X	2008.9.18	2009.9.9	10
28	PE	1311336	ZL 2008 2 0138419.3	2008.9.18	2009.11.18	10
29	PE	1269121	ZL 2008 2 0164593.5	2008.9.22	2009.8.19	10
30	PE-RT	1276388	ZL 2008 2 0164592.0	2008.9.22	2009.9.9	10
31	PE	1276389	ZL 2008 2 0164594.X	2008.9.22	2009.9.9	10

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1		864194	ZL 2007 3 0356108.5	2007.11.29	2008.12.17	10	
2		864193	ZL 2007 3 0356106.6	2007.11.29	2008.12.17	10	
3	U	864000	ZL 2007 3 0356107.0	2007.11.29	2008.12.17	10	
4		877700	ZL 2007 3 0356111.7	2007.11.29	2009.1.21	10	
5		885334	ZL 2007 3 0356110.2	2007.11.29	2009.2.11	10	



6			885151	ZL 2007 3 0356105.1	2007.11.29	2009.2.11	10
7			863999	ZL 2007 3 0357107.2	2007.12.10	2008.12.17	10
8			885153	ZL 2007 3 0357105.3	2007.12.10	2009.2.11	10
9		H	885246	ZL 2007 3 0357102.X	2007.12.10	2009.2.11	10
10		90	885251	ZL 2007 3 0357101.5	2007.12.10	2009.2.11	10
11		45	885074	ZL 2007 3 0357100.0	2007.12.10	2009.2.11	10
12			885331	ZL 2007 3 0357108.7	2007.12.10	2009.2.11	10
13			885072	ZL 2007 3 0357110.4	2007.12.10	2009.2.11	10
14			885247	ZL 2007 3 0357112.3	2007.12.10	2009.2.11	10
15			885136	ZL 2007 3 0357104.9	2007.12.10	2009.2.11	10
16			891154	ZL 2007 3 0357103.4	2007.12.10	2009.3.4	10
17			890972	ZL 2007 3 0357109.1	2007.12.10	2009.3.4	10
18			891152	ZL 2007 3 0357113.8	2007.12.10	2009.3.4	10
19		45	941494	ZL 2008 3 0098817.2	2008.5.20	2009.6.10	10
20		60 Y	941475	ZL 2008 3 0099018.7	2008.5.20	2009.6.10	10
21			938146	ZL 2008 3 0166246.1	2008.5.23	2009.6.3	10
22			956400	ZL2008 3 0166247.6	2008.5.23	2009.7.8	10
23			956271	ZL2008 3 0166248.0	2008.5.23	2009.7.8	10
24		U	956544	ZL2008 3 0166648.1	2008.5.30	2009.7.8	10



25		91.5	957042	ZL2008 3 0166649.6	2008.5.30	2009.7.8	10
26			-	2009 301 38495.4	2009.5.7	-	10

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1			PE		200610053150.4		2006.8.25
2					200710164431.1		2007.12.10
3			U		200720192732.0		2007.12.10
4			U		200730356109.X		2007.11.29
5					200730357106.8		2007.12.10
6					200730357111.9		2007.12.10
7					200810061955.2		2008.5.30
8			PE		200810062469.2		2008.6.13
9					200810042599.X		2008.9.5
10					200930158446.7		2009.10.19
11					200930158445.2		2009.10.19
12					200920199010.7		2009.10.22
13					200920199259.8		2009.10.30
14			PPR		200920201149.0		2009.11.27
15			PE		200920201150.3		2009.11.27

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PPR	PPR/AI		PPR	
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	PE-RT			
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	HDPE			
	PP			
	PB		PB	
	MPP		PP	



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1		04S520		
2	3	GB/T18742.3-2002		
3				
4		CJ/T258-2007		
5		CJ/T318-2009		
6		CJ/T317-2009		
7		CJJ63-2008		
8	HDPE	CJ/T250-2007		
9	M-PP	DL/T802.7-2008		
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PPR		
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2009	2,729.22	2.98%
2008	2,451.56	2.83%
2007	1,166.98	1.77%
	6,347.76	2.60%

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1	PPR	PPR			PPR
2	PP	PP			
3	PPH	PP			
4		HDPE			
5	C-PVC	C-PVC			
6	PVC-M	PVC-M			PVC
7	PE	PE			PE
8	COD	PE			
9	PPR/Cu	PPR			PPR
10	PPR	PPR			PPR
11		-	-		
12	PB-R	PB			



PE
 2008
 1309Q10488R3M 2009 10 10 2012 10 9

PP-R PE PVC-U
 GB/T19001-2008 idt ISO9001

PE
 GB/T24001-2004 idt ISO140012004
 1309E10145R2M 2009 10 10 2012 10 9

GB/T28001-2001
 1309S10100R0M 2009 10 10 2012 10 9

GB/T19001-2008 idt ISO90012008
 1309Q10543R3M
 2009 10 28 2012 10 27

GB/T24001-2004 idt ISO140012004
 1309E10157R2M
 2009 10 28 2012 10 27

1	PPR	GB/T18742.2-2002 2
2	PPR	GB/T18742.3-2002 3
3	PPR/AI	CJ/T210-2005 PP-R
4	F-PPR	CJ/T258-2007



5	PE	GB/T13663-2000	PE
6	PE	2 GB/T13663.2-2005	PE
7	PE	HDPE CJ/T250-2007	
8	PE	GB/T13663-2000	PE
9	HDPE	1 GB/T19472.1-2004	PE
10	PE	1 GB15558.1-2003	PE
11	PE	GB15558.2-2005 :	PE
12	PE-RT	PE-RT CJ/T 175-2002	
13	PB	2 GB/T 19473.2-2004 :	PB
14	PB	3 GB/T 19473.3-2004	PB
15	U-PVC	GB/T5836.1-2006	U-PVC
16	U-PVC	GB/T5836.1-2006 U-PVC	GB/T5836.1-2006
17		Q/T JSG 7-2007 HDPE-RT	
18	MPP	MPP Q/T JSG 1-2004	

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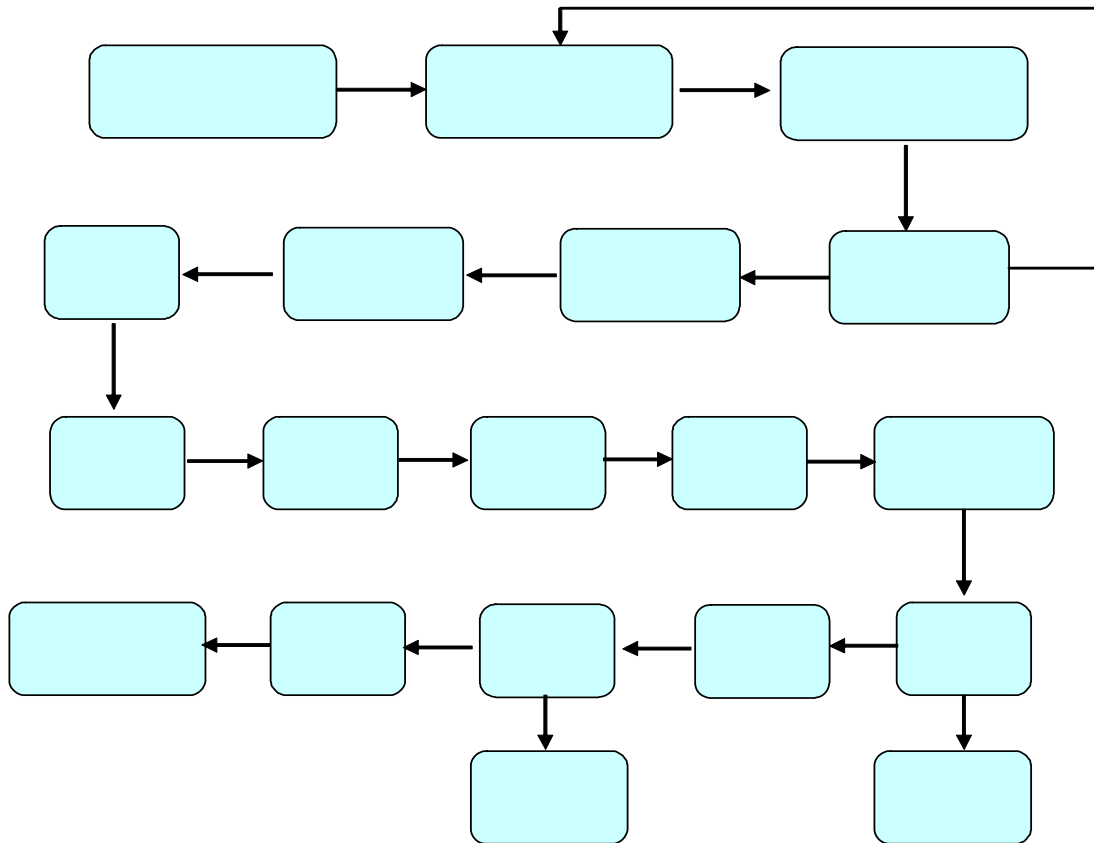


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2009	2008	PB			
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	/		
PP-R	S2.5 S3.2 S4 S5 20mm 110mm 16mm 110mm		
PE100	1.25MPa 63mm 630mm		
PE80	1.25MPa 20mm 630mm		
	1.0MPa 63mm 630mm		
	0.8MPa 75mm 630mm		
PE80	25mm 630mm		
	20mm 110mm		



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2009	-	-	-	-
2008				924.16
				924.16
2007				1,156.30
				851.87
				5.60
				2,013.77

2004 7

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2007

						%
2009	-	-	-	-	-	-
	PPR	7,595,683.21	8,507,165.20	8,671,652.67		1.90
	PE					



	PE	1,859,590.30	2,064,145.23	2,088,385.19	1.16
		149,119.82	165,523.00	163,960.64	-0.95
		11,563,022.23	12,834,954.67	12,952,864.60	0.91

					% - /
2009	-	-	-	-	-
2008	-	-	-	-	-
2007	PPR	7,522,571.47	8,425,280.05	8,575,731.48	1.75
	PE	335,498.46	375,758.28	382,468.24	1.75
		660,665.42	739,945.27	753,158.58	1.75
		8,518,735.35	9,540,983.60	9,711,358.30	1.75

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	2009	2008	2007
	-	924.16	2,013.77
%	-	1.03	2.87
	-	337.53	688.05
	-	28,225.06	21,311.26
%	-	1.20	3.23

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			()
2009	-	-	-
2008		PPR PB	1,501.58
2007		PPR PE PB	10,675.70

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			/		/	% /
2009	-	-	-	-	-	-
2008	PPR	1,197,307.69	12,094.02	1,184,671.20	11,966.38	1.06
	PB	13,818,480.75	27,848.61	13,680,426.55	27,570.39	1.00
		15,015,788.44	-	14,865,097.75	-	-
2007	PPR	4,211,592.78	14,199.57	4,175,666.82	14,078.45	0.85
	PE	76,708,431.96	10,823.44	75,965,609.03	10,718.63	0.97
	PB	25,836,991.76	26,691.11	25,580,503.25	26,426.14	0.99
		106,757,016.50	-	105,721,779.10	-	-

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	2009	2008	2007
	-	1,501.58	10,675.70
	-	56,582.15	53,480.45
%	-	2.65	19.96

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262.59

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192.97

0.54% 0.42% 0.34%

2008

2009

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241.91

0.08% 0.31%

2008

2009

57.43

1.03

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0.01%

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		2009		2008		2007		
		-	-	-	0.00%	24.46	0.04%	2007
		19.27	0.03%	19.27	0.02%	-	-	



		7.80	0.01%	7.80	0.01%	7.25	0.01%	2009
		121.69	0.16%	66.00	0.08%	59.69	0.10%	
		-	-	0.24	0.00%	0.24	0.00%	2008
		-	-	-	0.00%	0.48	0.00%	2007
	*	1.92	0.00%	1.04	0.00%	-	-	
		5.00	0.01%	5.00	0.01%	5.00	0.01%	
		5.04	0.01%	5.04	0.01%	5.04	0.01%	
		13.14	0.02%	13.14	0.02%	13.14	0.02%	
		173.86	0.23%	117.53	0.15%	115.30	0.19%	-

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		2009		2008		2007		
		-	-	-	-	7.87	0.01%	2007 3

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		2009		2008		2007	
		12	31	12	31	12	31
		-	-	17,812.23	-	-	-
		-	-	-	-	5,712.73	-
		-	-	-	-	2,208.80	-
		-	-	-	-	1,227,175.29	-
		-	-	17,812.23	-	1,235,096.82	-
		-	-	-	-	4,631,617.96	-
		-	-	-	-	4,631,617.96	-
		162,189.04	-	-	-	159,254.96	-
		-	-	224,327.00	-	-	-



		961,970.00	-	-
		1,124,159.04	224,327.00	159,254.96
		-	645,111.52	-
		-	-	818,967.50
		-	645,111.52	818,967.50
		-	-	1,230,380.00
		-	-	750,389.17
		-	-	710,000.00
		-	-	1,410,000.00
		-	-	2,110,000.00
		-	-	6,210,769.17

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		2009		2008		2007	
			%		%		%
		-	-	340.04	0.39	-	-
		2.93	0.05	16.56	0.02	25.88	0.04
		-	-	0.29	0.00	-	-
		-	-	1.09	0.00	-	-
		-	-	4.56	0.01	2.44	0.00
		-	-	-	-	11.62	0.02
		0.09	0.00	0.32	0.00	-	-
		3.02	0.05	362.87	0.43	39.94	0.06

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35.16% 4.23% 30.93%

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		2009		2008		2007	
		-	-	-	-	0.23	0.00%
		-	-	-	-	76.80	0.14%
		-	-	0.08	0.00%	-	-
		-	-	0.08	0.00%	77.03	0.14%

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		1,000	2009 8 31	2011 8 31	
2		4,000	2009 2 16	2010 2 16	

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		1,425	7.50	
		950	5.00	
		475	2.50	
		2,850	15.00	-

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				%
		1	4,252,126	2.53
		2	5,100,000	6.38
		1	19,824,000	11.8
		2	13,876,153	6.90
		3	14,600,000	18.25
		1	14,868,000	8.85
		2	9,186,588	4.56
		3	10,100,000	12.63
		1	3,973,394	2.37
		2	5,324,134	2.65
		3	2,800,000	3.50
			2,600,000	3.25
		1	4,235,232	2.52
		2	5,100,000	6.38
			3,922,414	2.33

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		2009	
		47.21	
		79.20	
		66.00	



		51.00	
		26.86	
		31.07	
		3.75	
		3.75	
		3.75	
		40.24	
		19.98	
		13.36	
		30.60	
		24.31	
		13.86	
		13.49	
		16.63	
		14.78	

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2007		94,718,104.07	344,591,788.66	439,310,437.33	-
		92,800,302.93	344,961,216.43	437,761,519.36	-

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	-	-	-
	121,764,386.97	124,764,429.42	39,407,822.38
	-	-	-
	716,429.26	716,429.26	716,429.26
	1,903,769.91	1,330,378.45	893,167.26
	4,200,138.72	3,424,663.95	3,615,505.15
	-	-	-
	293,625,131.32	266,936,808.78	163,891,979.94
	653,415,699.97	648,646,185.80	510,735,176.51
	2009 12 31	2008 12 31	2007 12 31
	149,240,235.53	238,200,000.00	164,750,000.00
	-	-	-
	-	-	-
	44,563,359.72	27,344,026.49	33,058,324.76
	76,260,667.37	49,066,610.44	35,679,922.22
	13,544,793.22	8,471,075.11	1,160,272.23
	4,271,803.79	-1,221,615.40	17,477,541.65
	274,571.00	421,579.50	396,727.56



	-	-	-
	54,000,000.00		20,000,000.00
	349,469,626.55	325,325,785.19	282,546,782.70
	190,000,000.00	190,000,000.00	190,000,000.00
	8,321,712.40	8,321,712.40	8,321,712.40
	-	-	-
	22,227,140.09	7,275,930.69	1,617,579.27
	83,397,220.93	117,722,757.52	28,249,102.14
	-	-	-
	303,946,073.42	323,320,400.61	228,188,393.81
	-	-	-
	303,946,073.42	323,320,400.61	228,188,393.81
	653,415,699.97	648,646,185.80	510,735,176.51

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	2009	2008	2007
	930,713,753.34	896,656,654.54	700,526,121.16
	566,302,362.34	614,076,061.74	484,202,574.62
	7,239,155.39	5,057,687.67	3,446,658.52
	142,821,217.42	114,790,469.42	73,943,833.34
	42,461,338.10	37,480,369.39	23,753,150.43
	11,471,589.40	19,246,974.32	14,024,316.74
	1,241,379.32	1,061,695.23	-12,224,902.09
	-	-	-
	-	511,701.06	-
	-	-	-
	159,176,711.37	105,455,097.83	113,380,489.60
	7,055,664.29	11,651,630.00	9,575,716.50
	1,810,671.93	1,791,492.63	4,158,255.16
	165,459.92	59,661.11	2,740,593.30
	164,421,703.73	115,315,235.20	118,797,950.94



	31,796,030.92	20,183,228.40	31,378,814.58
	132,625,672.81	95,132,006.80	87,419,136.36
	-	-	27,447,213.96
	132,625,672.81	95,132,006.80	87,487,341.17
	-	-	-68,204.81
	0.70	0.50	0.46
	0.70	0.50	0.46
	-	-	-18,865,135.07
	132,625,672.81	95,132,006.80	68,554,001.29
	132,625,672.81	95,132,006.80	68,622,206.10
	-	-	-68,204.81

3

	2009	2008	2007
	1,279,006,626.36	1,186,364,267.50	946,389,814.09
	4,900,941.22	4,650,268.75	9,246,437.53
	17,260,268.57	10,005,204.06	132,688,411.22
	1,301,167,836.15	1,201,019,740.31	1,088,324,662.84
	784,603,509.52	798,862,790.21	805,567,229.70
	66,415,088.74	49,653,694.10	28,367,877.49
	100,480,809.63	95,599,384.53	55,391,567.20
	137,180,602.35	110,724,670.56	90,313,211.90
	1,088,680,010.24	1,054,840,539.40	979,639,885.29
	212,487,825.91	146,179,200.91	108,684,776.55



	-	1,511,701.06	6,000,000.00
	-	-	-
	776,562.92	21,553,286.18	7,663,483.02
	-	-	-
	1,975,711.53	553,263.34	861,063.38
	2,752,274.45	23,618,250.58	14,524,546.40
	55,330,160.37	106,429,063.25	55,399,450.56
	-	-	-
	-	-	108,173,661.93
	-	-	5,000,000.00
	55,330,160.37	106,429,063.25	168,573,112.49
	-52,577,885.92	-82,810,812.67	-154,048,566.09
	-	-	-
	-	-	-
	413,390,065.65	394,200,000.00	234,750,000.00
	-	-	-
	413,390,065.65	394,200,000.00	234,750,000.00
	448,349,830.12	340,750,000.00	200,000,000.00
	164,261,233.01	20,297,069.43	30,843,440.07
	-	-	5,759,912.44
	890,000.00	32,400,000.00	-
	613,501,063.13	393,447,069.43	230,843,440.07
	-200,110,997.48	752,930.57	3,906,559.93
	-	-	-



	-40,201,057.49	64,121,318.81	-41,457,229.61
	88,197,932.49	24,076,613.68	65,533,843.29
	47,996,875.00	88,197,932.49	24,076,613.68

4

	2009	2008	2007
1.			
	132,625,672.81	95,132,006.80	87,419,136.36
	1,241,379.32	1,061,695.23	-12,224,902.09
	18,385,554.81	17,438,924.54	16,915,804.60
	3,000,042.45	3,652,645.31	931,264.67
	690,941.58	512,721.81	493,462.86
“_”	146,239.37	-7,626,017.18	2,740,593.30
“_”	-	-	-
“_”	-	-	-
“_”	10,138,512.98	19,672,658.03	13,890,507.81
“_”	-	-511,701.06	-
“_”	-775,474.77	190,841.20	3,578,946.08
“_”	-	-	-
“_”	-3,272,714.20	3,752,040.60	-34,300,097.08
“_”	-8,942,942.77	22,038,156.45	67,220,845.69
	59,250,614.33	-10,599,849.45	-37,980,785.65
	-	1,465,078.63	-
	212,487,825.91	146,179,200.91	108,684,776.55
2.	-	-	-



	-	-	-
	-	-	-
	-	-	-
3.	-	-	-
	47,996,875.00	88,197,932.49	24,076,613.68
	88,197,932.49	24,076,613.68	65,533,843.29
	-	-	-
	-	-	-
	-40,201,057.49	64,121,318.81	-41,457,229.61

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	2009 12 31	2008 12 31	2007 12 31
	56,795,992.41	83,728,966.65	14,038,359.99
	-	-	-
	2,000,139.80	4,610,000.00	14,579,041.93
	37,592,544.56	48,753,209.89	44,282,478.89
	60,526,005.57	13,087,517.91	42,479,551.59
	-	-	-
	-	-	-
	30,845,308.47	27,741,555.18	20,660,355.06
	58,513,372.09	61,266,960.25	84,623,807.38
	-	-	-
	-	-	-
	246,273,362.90	239,188,209.88	220,663,594.84
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	89,266,238.10	90,162,142.20	100,380,477.83



	-	-	-
	117,320,861.83	86,083,615.78	93,582,935.70
	6,000,000.00	21,452,846.78	2,741,716.63
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	88,950,009.47	91,269,936.92	39,407,822.38
	-	-	-
	-	-	-
	-	-	-
	713,444.54	637,001.72	951,932.23
	-	-	-
	302,250,553.94	289,605,543.40	237,064,884.77
	548,523,916.84	528,793,753.28	457,728,479.61
	2009 12 31	2008 12 31	2007 12 31
	139,240,235.53	218,100,000.00	144,750,000.00
	-	-	-
	-	-	-
	44,823,421.12	15,877,655.65	29,315,925.68
	20,617,030.78	2,095,586.27	568,697.29
	2,233,556.87	1,934,073.87	167,281.47
	6,193,814.52	3,906,039.62	2,854,057.13
	260,208.50	421,579.50	396,727.56
	-	-	96,000.00
	18,049,305.75	20,864,568.57	50,569,054.89
	-	-	-
	-	-	-
	231,417,573.07	263,199,503.48	228,717,744.02
	54,000,000.00	-	20,000,000.00
	-	-	-
	-	-	-



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	9,915,301.60	5,490,232.69	12,440,342.25
	149,512,093.97	56,583,514.21	40,233,201.02
	0.79	0.30	0.21
	0.79	0.30	0.21
	-	-	-18,865,135.07
	149,512,093.97	56,583,514.21	21,368,065.95

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	2009	2008	2007
	771,485,622.54	704,897,333.11	493,984,548.60
	-	3,175,992.00	7,964,250.33
	8,722,078.07	8,618,658.69	115,152,091.28
	780,207,700.61	716,691,983.80	617,100,890.21
	538,789,135.38	515,215,035.35	433,675,597.85
	20,894,831.07	17,741,489.26	13,354,874.56



	84,878,689.17	22,962,515.03	14,346,088.49
	39,813,573.37	73,137,774.11	28,647,728.52
	-	20,500,000.00	-
	-	-	118,173,661.93
	-	-	5,000,000.00
	39,813,573.37	93,637,774.11	151,821,390.45
	45,065,115.80	-70,675,259.08	-137,475,301.96
	-	-	-
	-	-	-
	403,390,065.65	364,100,000.00	164,750,000.00
		-	-
	403,390,065.65	364,100,000.00	164,750,000.00
	428,249,830.12	310,750,000.00	120,000,000.00
	163,539,331.85	18,115,112.71	23,115,041.30
		-	-
	890,000.00	32,400,000.00	-
	592,679,161.97	361,265,112.71	143,115,041.30
	-189,289,096.32	2,834,887.29	21,634,958.70
	-	-	-
	-28,176,024.24	46,090,606.66	-7,052,357.20
	55,128,966.65	9,038,359.99	16,090,717.19
	26,952,942.41	55,128,966.65	9,038,359.99



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			%
	20	3%-5%	4.85-4.75
	10	3%-5%	9.70-9.50
	5	3%-5%	19.40-19.00
	5	3%-5%	19.40-19.00
	5	3%-5%	19.40-19.00

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	2009	2008	2007
	-146,239.37	8,137,718.24	-2,738,732.46
	-	-	-
	5,026,401.75	2,141,358.72	101,182.34



)	(“-”	-	-
		3,499,085.85	8,134,537.05
		129,126,586.96	86,997,469.75
			26,475,621.44
			61,011,719.73

2009 12 31 653,415,699.97

2009 12 31

	20	66,657,894.86	59,188,920.11
	10	153,132,890.36	80,762,707.59
	5	6,906,431.97	2,795,563.36
	5	10,354,725.29	5,556,259.37
	5	743,739.60	452,576.16
	-	237,795,682.08	148,756,026.59

1 30,942,858.19

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2009 12 31

		128,011,883.92	50	503-582
		1,912,000.00	5	12-35
		129,923,883.92		
				121,020,185.02
				744,201.95
				121,764,386.97

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2 94,177,333.92



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	2009 12 31	2008 12 31
	61,000,000.00	56,000,000.00
	50,000,000.00	154,200,000.00
	28,000,000.00	28,000,000.00
	10,240,235.53	
	149,240,235.53	238,200,000.00
2009	2008	37.35%

2009 12 31 44,563,359.72

	2009 12 31	2008 12 31
1	44,423,412.04	26,691,438.95
1-2	109,280.65	75,987.00
2-3	20,511.00	253,615.03
3	10,156.03	322,985.51
	44,563,359.72	27,344,026.49
2009 12 31	5%	5%

	2008 12 31			2009 12 31
	7,664,531.06	62,941,207.62	57,403,722.94	13,202,015.74



	-	1,496,115.79	1,496,115.79	-
	159,309.41	6,719,929.51	6,879,238.92	-
	-	13,468.00	13,468.00	-
	647,234.64	63,166.15	367,623.31	342,777.48
	357,259.81	20,799.40	227,477.10	150,582.11
	289,974.83	42,366.75	140,146.21	192,195.37
	8,471,075.11	71,233,887.07	66,160,168.96	13,544,793.22
2009	2008	59.89%	2009	

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2009 12 31

	2009 12 31	2008 12 31
	4,596,467.26	1,434,153.41
	263,630.00	243,736.28
	2,454,098.66	1,366,219.36
	7,314,195.92	3,044,109.05

5% (5%)

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	2009 12 31	2008 12 31
1	6,280,284.04	2,449,807.73
1-2	612,003.14	336,119.48
2-3	198,988.50	98,489.10
3	222,920.24	159,692.74
	7,314,195.92	3,044,109.05

2009 12 31

	2009 12 31	2008 12 31
	76,260,667.37	49,066,610.44
	54,000,000.00	



	4,271,803.79	-1,221,615.40
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2009 12 31

	2009 12 31	2008 12 31	2007 12 31
	190,000,000.00	190,000,000.00	190,000,000.00
	8,321,712.40	8,321,712.40	8,321,712.40
	22,227,140.09	7,275,930.69	1,617,579.27
	83,397,220.93	117,722,757.52	28,249,102.14
	-	-	-
	303,946,073.42	323,320,400.61	228,188,393.81

	2009	2008	2007
	212,487,825.91	146,179,200.91	108,684,776.55
	-52,577,885.92	-82,810,812.67	-154,048,566.09
	-200,110,997.48	752,930.57	3,906,559.93
	-	-	-
	-40,201,057.49	64,121,318.81	-41,457,229.61
	47,996,875.00	88,197,932.49	24,076,613.68

2009 12 31



					20,000,000.00	2010.7.10
			64,923,955.00	62,435,203.43	15,000,000.00	2010.7.20
					10,000,000.00	2010.7.30
					5,000,000.00	2010.8.24
			60,196,237.11	49,393,300.18	11,000,000.00	2010.6.20
			125,120,192.11	111,828,503.61	61,000,000.00	

2009 12 31

			28,000,000	28,000,000	28,000,000	2010 4 14

2008 2 22

37,864.58

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23,258,602.00

2,938,247.47

11,332,581.90

1,313,078.63

7,674,694.00

2009 12 31



	2009 /2009 12 31	2008 / 2008 12 31	2007 / 2007 12 31
	1.22	1.17	1.32
	0.70	0.71	0.74
%	52.03	49.77	54.34
	13.55	11.77	10.34
	3.68	3.85	3.28
	1.60	1.70	1.20
	0.70	0.50	0.46
	0.70	0.50	0.46
	1.12	0.77	0.57
	-0.21	0.34	-0.22
	20,206.75	15,997.49	15,412.48
	14.57	6.70	8.12
%	0.24	0.36	0.68

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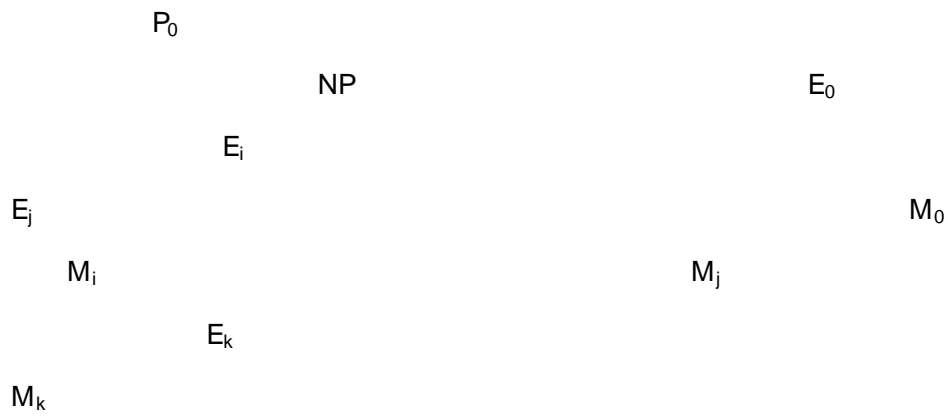
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	%		
	2009	2008	2007
	41.45	34.50	29.35
	40.36	31.55	28.0

$$=P_0/(E_0 \cdot NP \div 2 \cdot E_i \times M_i \div M_0 - E_j \times M_j \div M_0 \pm E_k \times M_k \div M_0)$$



		2009	2008	2007
	1	132,625,672.81	95,132,006.80	87,487,341.17
	2	3,499,085.85	8,134,537.05	26,475,621.44
	3=2-1	129,126,586.96	86,997,469.75	61,011,719.73
	4	323,320,400.61	228,188,393.81	259,483,030.37



	5			
	6			
	7	152,000,000.00		12,000,000.00
	7-1	57,000,000.00		12,000,000.00
	7-2	95,000,000.00		
	8			
	8-1		8	2
	8-2		4	
	9			-18,865,135.07
	10			2
	11		12	12
	12=4+1x0.5+5x6 /11-7x8/11±9x10 /11	319,966,570.35	275,754,397.24	298,082,511.78 220,976,891.45
(%)	13=1/12	41.45	34.50	29.35
(%)	14=3/12	40.36	31.55	28.01

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/	2009		2008		2007	
	0.70	0.70	0.50	0.50	0.46	0.46
	0.68	0.68	0.46	0.46	0.32	0.32



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$$1 \quad =P_0 \div S$$

$$S = S_0 + S_1 + \sum_{i=1}^n S_i \times M_i - M_0 - \sum_{j=1}^n S_j \times M_j - M_0 - S_k$$

P0

S

S0

S1

Si

Sj

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M0

Mi

Mj

$$2 \quad =P_1 / (S_0 + S_1 + \sum_{i=1}^n S_i \times M_i - M_0 - \sum_{j=1}^n S_j \times M_j - M_0 - S_k + \dots)$$

P1

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		2009	2008	2007
	1	132,625,672.81	95,132,006.80	87,487,341.17
	2	3,499,085.85	8,134,537.05	26,475,621.44
	3=1-2	129,126,586.96	86,997,469.75	61,011,719.73
	4	190,000,000.00	190,000,000.00	52,200,000.00
	5			137,800,000.00



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	11	12	12	12
	$12=4+5+6 \times 7 / 11-8 \times 9 / 11-10$	190,000,000.00	190,000,000.00	190,000,000.00
	$13=1/12$	0.70	0.50	0.46
	$14=3/12$	0.68	0.46	0.32

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	2009 12 31		2008 12 31		2007 12 31	
		%		%		%
	35,979.06	55.06	38,170.94	58.85	34,684.32	67.91
	29,362.51	44.94	26,693.68	41.15	16,389.20	32.09
	65,341.57	100	64,864.62	100	51,073.52	100

2008

10.05% 2009

2008

5.74% 2008 2009

27.00% 0.74%

3-5%

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2008

41.15% 2009

44.94%

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	2009 12 31		2008 12 31		2007 12 31	
		%		%		%
	7,783.99	21.63	11,679.79	30.60	2,907.66	8.38
	277.01	0.77	1,044.83	2.74	1,630.82	4.70
	5,777.61	16.06	7,755.40	20.32	6,976.97	20.12
	6,193.98	17.22	2,395.94	6.28	7,466.54	21.53



	627.23	1.74	303.02	0.79	335.17	0.97
	15,319.23	42.58	14,991.96	39.28	15,367.16	44.31
	35,979.06	100.00	38,170.94	100.00	34,684.32	100.00

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2007 2,907.66 2008
2007 3.02
2009
33.36% 2009

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10%-30%
70%-80%
95%-97% 3%-5% 1

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	6,208.91	100.00	8,246.80	100.00	7,455.84	100.00
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2007

2007

49.03%

16.04%

11.28% 2008

2008

31.16%

10.61% 2008

9.51%

2007

2009

5.73%

2008

24.71% 2009

6.30%

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2007

2008

2009

66,095.21

86,693.01

91,658.10

30-45

6,976.97

7,755.40

5,777.61



3

2009 2008 2007 6,193.98

2,395.94 7,466.54

2007 97.52%

1,371.95 1,820.00 2008

2007 67.91%

2009

1.59

397.15

1,053.72

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	2009 12 31		2008 12 31		2007 12 31
1.					
	90.60		94.03		93.60
2					
	97.77		51.00		102.22
	85.07		43.45		
	40.85		40.60		
	223.69		135.05		102.22
	314.29		229.08		195.82
	678.30		341.04		367.19
	46.33%		67.17%		53.33%



PB	936.62	938.17	442.45
HDPE	801.91	552.26	444.64
	1,874.87	1,133.25	827.63
	11,197.15	10,076.43	9,489.41

2007 16.69% 2009 5.02 2008 4.01
25.15%

2008 40.54%
6.19% PPR 15.46%
2009 2008 11.12% PPR
PE 30.80% PE
PE
PPR
PE 2007 PE PE-RT

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2007
17.48% 2008 16.68% 2009



19.58%

2008 2009

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	2008	2007
	14,991.96	15,367.16
	10,086.31	13,190.47
	3,796.68	12,328.76
	54,517.75	41,632.45

1 2009 15,319.23

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	2008	2007
	3.85	3.28
	4.75	3.10
	2.13	1.81
	3.03	3.43
	3.30	2.78

2009 3.68

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30%-40%

60%-70%

2 2008

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50%

PPR

PE

PB

2007

		2009		2008		2007	
		6	30	12	31	12	31
1	PPR		8,691.78		24,981.82		19,299.32
			4,595.47		4,556.07		2,786.63
			1.89		5.48		6.93
2	PE		8,472.45		21,541.97		17,203.73
			3,193.00		3,057.64		3,113.97
			2.65		7.05		5.52
3	HDPE		1,834.06		4,606.56		3,532.17
			584.07		498.45		531.24
			3.14		9.24		6.65
			18,998.29		51,130.6		40,035.22
			8,372.53		8,112.17		6,431.84
			2.27		6.30		6.22

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	2009	1-6	2008	2007
		20,956.82	59,52.75	27,969.61
		6,770.78	6,401.08	4,099.14
		3.10	9.27	6.82



4

				25%		
	2007	2008	1-7			
2008	7			2008	12	55.88%



1
 2009 2008 2007 0 0
 100 2007 11 12
 2% 600 2008 1
 10% 100

2
 2009 2008 2007
 14,875.60 11,524.81 11,551.73
 22.77% 17.77% 22.62%

3
 2009 2008 2007 1,628.44
 2,145.28 274.17 2007 2006 2007
 131.11 2008 2007
 2009 2008

	2009 12 31	2008 12 31
	600.00	2,047.12
	1,028.44	-
	-	98.17
	1,628.44	2,145.28

4
 2009 12 31 12,176.44

	2009 12 31	2008 12 31	2007 12 31
	12,801.19	12,801.19	4,090.85
	191.20	191.20	191.20



		12,992.39	12,992.39	4,282.05
		699.17	439.95	306.06
		116.78	75.99	35.21
		815.95	515.95	341.27
		12,102.02	12,361.24	3,784.79
		74.42	115.21	155.99
		12,176.44	12,476.44	3,940.78

2007

2006

690.19

2008

2007

6,559.00

3,338.46

1,232.11

4

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1

()

()

1 (1

) 5% 1-2 15% 2-3

40% 3 100%

2

	2009 12 31	2008 12 31	2007 12 31
1	84.40%	94.26%	94.22%
1 2	14.13%	5.13%	3.86%
2 3	1.44%	0.23%	1.31%



3	0.03%	0.38%	0.61%
	100.00%	100.00%	100.00%

1

2007 2008 2009

30 45

3

	1	1-2	2-3	3
	5%	15%	40%	100%
	5%	10%	20%	50%
	5%	7%	15%	30%-100%[]
	5%	10%	50%	100%

[]

3

3-4

30%

4-5

50%

5

100%

1

2-3

1-2

3

4

3,852,045.83

	2009	2008	2007
	1,712,013.46	876,324.92	1,263,707.45
	1,241,379.32	1,061,695.23	-12,224,902.09
	4,823,612.52	5,294,246.66	5,108,876.35

2007

2007

2007

2007



2007 12 31				
1	70,251,273.61	5%	820,873.96	3,512,563.68
1 2	2,875,876.70	15%	-347,891.98	431,381.51
2 3	977,499.75	40%	-1,131,657.93	390,999.91
3	453,717.66	100%	505,876.03	453,717.66
	74,558,367.72		-152,799.92	4,788,662.76
1	2,394,144.82	5%	-4,858,893.10	119,707.24
1 2	1,257,086.73	15%	-2,150,162.86	188,563.01
2 3	14,583.34	40%	-58,218.29	5,833.84
3	6,110.00	100%	-5,004,827.92	6,110.00
	3,671,924.89		-12,072,102.17	320,213.59
2008 12 31				
1	77,734,429.05	5%	374,157.79	3,886,721.47
1 2	4,225,327.71	15%	202,417.65	633,799.16
2 3	191,264.23	40%	108,113.04	76,505.69
3	316,999.20	100%	316,999.20	316,999.20
	82,468,020.19		1,001,687.68	4,914,025.52
1	2,678,964.79	5%	14,241.00	133,948.24
1 2	216,662.00	15%	-156,063.71	32,499.30
2 3	501,659.00	40%	194,830.26	200,663.60
3	13,110.00	100%	7,000.00	13,110.00
	3,410,395.79		60,007.55	380,221.14
2009 12 31				
1	52,403,194.90	5%	-1,266,561.72	2,620,159.75
1 2	8,771,056.04	15%	681,859.26	1,315,658.42
2 3	896,075.29	40%	1,397,843.23	358,430.12
3	18,728.77	100%	191,264.23	18,728.77



	62,089,055.00		1,004,405.00	4,312,977.06
1	5,835,513.30	5%	157,827.44	291,775.67
1 2	793,173.23	15%	86,476.68	118,975.98
2 3	90,662.00	40%	-164,398.80	36,264.80
3	63,619.00	100%	157,069.00	63,619.00
	6,782,967.53		236,974.32	510,635.45
	1,605,453.46		106,560.00	

3

2009

1

	2009 12 31		2008 12 31		2007 12 31	
		%		%		%
	14,924.02	42.70	23,820.00	73.22	16,475.00	58.31
	-	-	-	-	-	-
	4,456.34	12.75	2,734.40	8.41	3,305.83	11.7
	7,626.07	21.82	4,906.66	15.08	3,567.99	12.63
	1,354.48	3.88	847.11	2.60	116.03	0.41
	427.18	1.22	-122.16	-0.38	1,747.75	6.19
	27.46	0.08	42.16	0.13	39.67	0.14
	731.42	2.09	304.41	0.94	1,002.40	3.55
	29,546.96	84.55	32,532.58	100	26,254.68	92.92
	5,400.00	15.45	-	-	2,000.00	7.08
	5,400.00	15.45	-	-	2,000.00	7.08
	34,946.96	100	32,532.58	100	28,254.68	100
	2007	2008	2009		2008	



3

2007 2008 2009 3,567.99 4,906.66

7,626.07 2009

2008 55.42% 2008 2007 37.52%

PE HDPE

4

1

	2009			2008			2007	
	12	31		12	31		12	31
		95.02			30.89			211.00
		66.57			15.55			141.00
		26.73			10.80			123.04
		21.42						75.04
		20.00						71.00
		20.00						29.00
		19.40	-		-			15.54
		17.06	-		-			15.00
		14.68	-		-			11.92
		12.28	-		-			
		12.24	-		-	-		-



	10.11	-	-	-	-
	335.50		57.24		692.54
	731.42		304.41		1,002.40
	45.87%		18.80%		69.09%

10 10

2

2008 2007 697.99 69.63%

2008 4 452

2008

2009 427.01

5

	2009 12 31	2008 12 31	2007 12 31
	-543.91	-174.41	108.03
	0.41	0.01	0.44
	11.71	11.21	21.61
	927.95	7.73	1,537.13
	15.92	6.84	35.68
	-	-	10.91
	-	-	0.80
	5.48	14.74	10.88
	2.51	5.89	12.70
	7.10	5.83	9.52
	-	-	-
	427.18	-122.16	1,747.75

2008 2007 1,869.91 106.99%



282.49

1,529.40

99.50%

2008

15%

25%

25%

2009

2008

549.34

2008

2009 12 31

3

2009

5,400

		2009 12 31	2008 12 31
		5,400	-

1

	2009 / 2009 12 31	2008 /2008 12 31	2007 /2007 12 31
	1.22	1.17	1.32
	0.70	0.71	0.74
%	52.03	49.77	54.34
	20,206.75	15,997.49	15,604.76
	14.57	6.70	8.12
	1.12	0.77	0.57
	-0.21	0.34	-0.22

2

2007

2006

2008

2,000

2008

2009



2008

2008

2009 2008 2007 52.03% 49.77%

54.34%

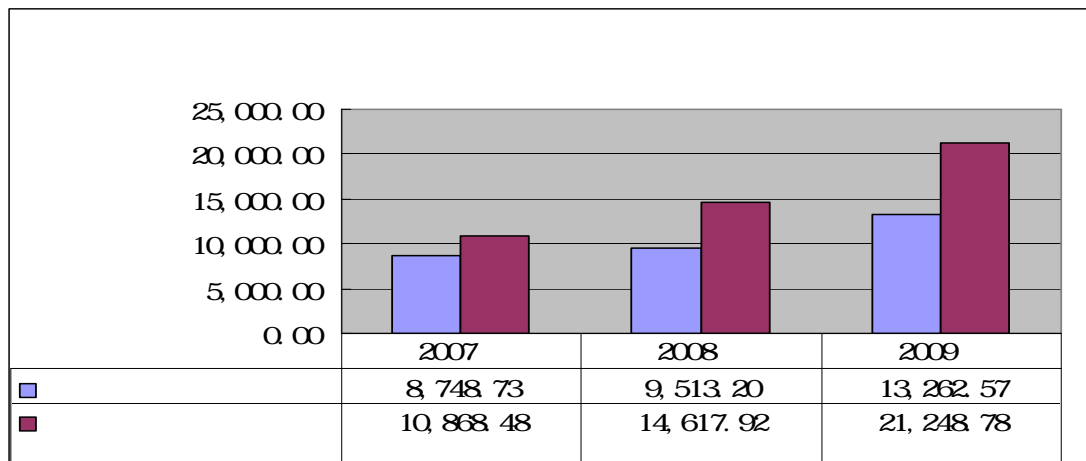
2009

2008 2007 20,206.75 15,997.49

15,412.48 14.57 6.70 8.12

2009 2008 2007

21,248.78 14,617.92 10,868.48



2007 2008

2009

3

2008

	%	%	%
	36.69	1.40	0.93
	59.51	0.38	0.26
	50.47	1.49	0.92



	48.89	1.09	0.70
	49.77	1.17	0.71

2008

49.77%

2007 1

2006

53.30%

2007

28.58% 2008

36.69%

2008

4

1

1



3

2007 2006
 2.63 / 2.50 / 2007 2006
 2.44 / 2.29 /
 1.21 / 1.20 /
 2007 2006 1.80 / 1.19 /

2

1

	2008	8.37	4.08	4.61	5.69	11.77
	2007	3.89	4.48	4.51	4.29	10.34
	2008	4.75	2.13	3.03	3.30	3.85
	2007	3.10	1.81	3.43	2.78	3.28
	2008	1.32	0.24	0.97	0.84	1.50
	2007	0.91	0.33	0.96	0.73	1.25

1
 2 2009 13.55 3.68
 1.41
 3 = /
 = /
 = /
 2008 2007

2



2007 10.34 / 2008
11.77 / 2009 13.55 /

30
1

3

“ ” “

”

10

2007 2008

4

2007 2008 2009 1.25 / 1.50 /

1.41 / 2007 2008



2007 2009 70,052.61 89,665.67
 93,071.38 94%

	2009		2008		2007	
		%		%		%
	91,658.10	98.48	86,693.01	96.68	66,095.21	94.35
	1,413.28	1.52	2,972.66	3.32	3,957.40	5.65
	93,071.38	100.00	89,665.67	100.00	70,052.61	100.00

1

PPR PE HDPE PB

	2009		2008		2007	
		%		%		%
PPR	40,346.27	44.02	40,456.93	46.67	29,964.50	45.34
PE	32,710.96	35.69	29,620.43	34.17	23,901.98	36.16
HDPE	6,860.97	7.49	7,046.35	8.13	5,150.29	7.79
PB	3,491.81	3.81	4,117.01	4.75	5,318.95	8.05
	8,248.08	9.00	5,452.29	6.29	1,759.49	2.66
	91,658.10	100.00	86,693.01	100.00	66,095.21	100.00

1 PPR

2007 2009 PPR

45%

2 PE

2007

2009 PE

35%



3 HDPE

8%

4 PB

PB

10%

PVC

2

	2009		2008		2007	
		%		%		%
	56,654.74	61.81	50,260.73	57.98	41,039.32	62.09
	15,485.69	16.90	18,017.90	20.78	14,540.92	22.00
	6,495.94	7.09	5,289.55	6.10	3,089.44	4.67
	4,672.60	5.10	4,163.46	4.80	3,395.16	5.14
	3,450.99	3.77	3,109.78	3.59	2,025.06	3.06
	2,646.84	2.89	2,974.96	3.43	2,005.31	3.03
	2,251.30	2.46	2,876.63	3.32	-	-
	91,658.10	100.00	86,693.01	100.00	66,095.21	100.00

80%

2008 3

3

2007	8,299.40	16,901.51	19,243.90	21,650.40	66,095.21
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”

2005

2009 12 31

4.78

99%

3

1 PPR

PPR

		%	%
2009	40,346.27	44.02	-2.65
2008	40,456.93	46.67	1.33
2007	29,964.50	45.34	

PPR

45%

2008

86,693.01

20,597.80

,PPR

35.02%

10,492.43

50.94%

2007

45.34%

2008

46.67%

1.33%

2008

2009

91,658.10

4,965.09

PPR

110.66

46.67%

44.02%

2.65%



		2009			2008			2007	
			%	%		%	%		%
		6,230	43.87	0.97	5,104	42.89	-5.65	3,410	48.54
		7,395	21.28	-4.22	6,302	25.5	4.28	4,706	21.22
		13,625	65.15	-3.25	11,406	68.39	-1.37	8,116	69.76
		-	32.39	4.1	-	28.29	-1.95	-	30.24
		-	2.46	-0.86	-	3.32	3.32	-	-

2008

PPR

PPR

PPR

			%	/	%		%
2009	40,346.27	-110.66	-0.27	24,192.93	-11.54	16,676.88	12.74
2008	40,456.93	10,492.43	35.02	27,349.85	22.66	14,792.38	10.08
2007	29,964.50	-	-	22,297.59	-	13,438.45	-



11.54%

PPR

12.74%

2 PE

PE

		%	%
2009	32,710.96	35.69	1.52
2008	29,620.43	34.17	-1.99
2007	23,901.98	36.16	-

PE

35%

2008

PE

23.92%

5,718.45

2008

27.76%

36.16%

34.17%

1.99%

PE

2008

2009

PE

10.43%

3,090.53

2009

62.25%

34.17%

35.69%

1.52%

PE

2009

PE

PE

2007

PE

PE

2007

PE

PE-RT

PE

PE

2008

4

PE

PE



			%	/	%		%
2009	32,710.96	3,090.53	10.43	16,210.99	-13.87	2,0178.26	28.22
2008	29,620.43	5,718.45	23.92	18,822.14	16.39	15,737.02	6.48
2007	23,901.98	-	-	16,172.17	-	14,779.70	-

PE

2008

2009

2008

PE

23.92%

PE

16.39%

PE

6.48%

2009

PE

10.43%

28.22%

20,178.26

13.87%

3 HDPE

HDPE

		%	%
2009	6,860.97	7.49	-0.64
2008	7,046.35	8.13	0.34
2007	5,150.29	7.79	-

HDPE

7%

2008

HDPE

36.81%

1,896.06

2008

9.21%

2007

2009

HDPE

185.38

HDPE



HDPE

HDPE

HDPE

HDPE

HDPE

			%	/	
--	--	--	---	---	--



PB

			%	/	%		%
2009	3,491.81	-625.20	-15.19	54,313.55	-10.70	642.90	-5.02
2008	4,117.01	-1,201.94	-22.60	60,824.47	11.08	676.87	-30.32
2007	5,318.95	-	-	54,757.09	-	971.37	-

PB

2008

PB

2009

PB

	2009		2008		2007	
		%		%		%
	55,746.21	98.44%	58,467.95	95.21	44,783.95	92.49
	884.03	1.56%	2,939.65	4.79	3,636.31	7.51
	56,630.24	100.00%	61,407.61	100.00	48,420.26	100.00

90%

1

	2009		2008		2007	
		%		%		%
	42,755.58	76.70	46,904.49	80.22	37,880.13	84.58
	5,378.91	9.65	5,731.04	9.80	4,817.35	10.76
	1,354.94	2.43	1,124.95	1.93	703.44	1.57
	6,256.77	11.22	4,707.47	8.05	1,383.03	3.09



1.50%-2.50%

PVC 2007 2008
 2
 2008 2007 30.56%
 2009 2008 4.66%
 80%

1

	2009		2008		2007	
		%		%		%
PPR	14,250.71	33.33	16,859.06	35.94	14,233.52	37.58
PE	22,226.98	51.99	21,886.03	46.66	16,362.73	43.20
PB	1,601.89	3.75	1,961.89	4.18	2,295.68	6.06
	4,676.00	10.94	6,197.51	13.21	4,988.20	13.17
	42,755.58	100.00	46,904.49	100.00	37,880.13	100.00

2008 PPR PE 2007
 2006 2008

2008 PB
 2008 PB
 2009 PPR PB
 2008
 PE
 PE

/

	2009	%	2008	%	2007
PPR /	8,993.85	-24.64	11,935.19	4.98	11,369.09
PE /	8,332.58	-26.53	11,341.54	13.89	9,957.98
PB /	23,941.43	-20.15	29,983.36	12.33	26,691.11



2008 PPR PE 4.98% 13.89%

PPR PE

PPR PE

2009 PPR PE 2008

2008

PB

PB 12.33% 2009 PB

PB

PB509 PB4235 PB4237

2008

2

2008 913.69 2008

2009 352.13

1



	2009		2008		2007	
		%		%		%
PPR	19,442.05	54.14	15,475.11	54.83	10,665.18	50.04
PE	10,825.96	30.15	8,078.46	28.62	6,698.25	31.43
HDPE	2,314.36	6.44	2,439.79	8.64	1,618.12	7.59
PB	1,338.21	3.73	1,486.89	5.27	1,953.25	9.17
	1,991.31	5.54	744.81	2.64	376.46	1.77
	35,911.89	100.00	28,225.06	100.00	21,311.26	100.00

= - = /

PPR

PE

HDPE

PB

1 PPR

PPR

PPR

50%

1

PPR

2

PPR

3

PPR

2 PE

PE

PE

3 HDPE

HDPE

HDPE

4 PB

PB

PB

2008

2009

2

1

1



2008 32.56% 2007 0.32%
 PPR PE HDPE PB
 2.66% -0.75% 3.20% -0.60% PPR

PPR 46.67%

2009 39.18% 2008 6.62%
 PPR PE
 9.94% 5.83%

2008

3

PPR

	2009		2008		2007
PPR	48.19%	9.94%	38.25%	2.66%	35.59%

PPR 2008 38.25%
 2007 20%

25%

PPR 2009 48.19% 2008
 PPR 24.64% PPR
 25.78% PPR
 11.54%

	2009		2008	
PPR	-11.54%	-25.78%	22.66%	17.60%

PE

	2009	2008	2007



PE	33.10%	5.83%	27.27%	-0.75%	28.02%	6.88%

PE 2008 27.27% 2007

PE 2009 33.10% 5.83%

2008 PE 26.53%

PE 20.77%

13.87%

	2009		2008	
PE	-13.87%	-20.77%	16.39%	17.60%

HDPE

	2009		2008		2007
HDPE	33.73%	-0.89%	34.62%	3.21%	31.42%

HDPE 2008 34.62% 2007

HDPE 2009 33.73% 2008 0.89%

HDPE

PPR PE

	2009		2008	
HDPE	-18.41%	-13.79%	13.06%	7.77%

PB

	2009		2008		2007
PB	38.32%	2.20%	36.12%	-0.61%	36.72%



PB 2008 36.12% 2007

PB 2009 38.32% 2008 2.20%

PB

	2009		2008	
PB	-10.70%	-17.29%	11.08%	12.15%

3

PE

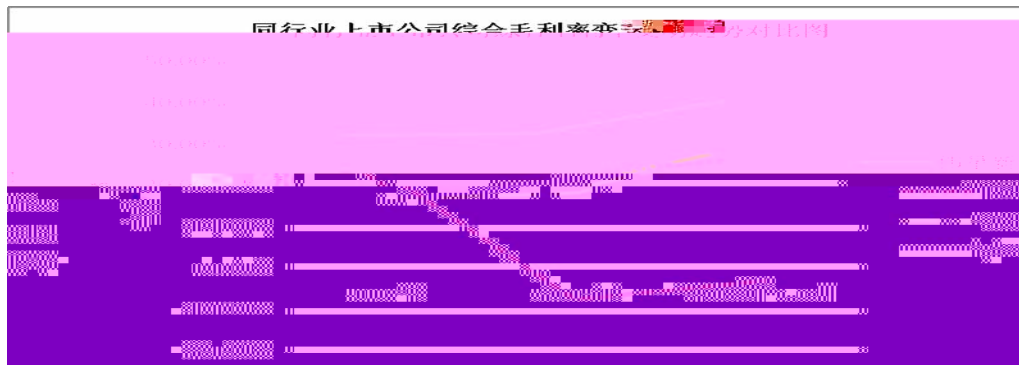
HDPE

PE

HDPE

1

1



	2007	2008	2009 1-6
	32.24%	32.56%	40.28%
	22.90%	-7.61%	-3.18%
	16.64%	18.07%	28.26%
	16.51%	21.01%	26.21%
	18.68%	19.54%	27.23%

1



2 2008 2008 2009 1-6

3
2007 2008 2009 1-6

2
PPR
PPR 2007 2008
45.34% 46.67% 2007 2008 35.59%
38.25% PPR

2008

PE HDPE 2007 2008

“ 2 PE

” “ 3 HDPE ”

3

2 PE

1

PE



PE



	2007	2008	2009 1-6
	28.02%	27.27%	37.05%
	18.37%	-20.13%	6.91%
	18.15%	17.32%	27.26%
	16.51%	21.01%	26.21%
	17.68%	19.16%	26.73%

1 2008 2008 2009 1-6

2

2007 2008 2009

1-6

2 PE

PE

PE

PE

PE

PE

PE

PE

PE

PE-RT

PE

PE-RT

10%

2007 2008



2007 2008
2008

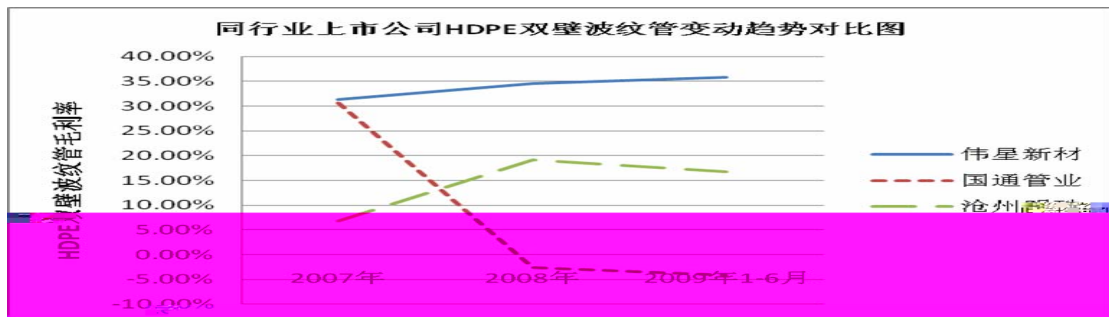
3 2008

2008 PE
2008 PE
2008

2009 1-6

3 HDPE

1 HDPE



HDPE

:

		2007	2008	2009 1-6
		31.42%	34.62%	35.88%
		5,150.28	7,046.35	2,860.49
		30.60%	-2.60%	-4.14%
		9,503.56	6,277.41	2,276.24
		6.83%	19.21%	16.78%
		3,826.79	4,507.20	528.18
		18.72%	19.21%	16.78%

1 2008 2008 2009



2

2007 2008 2009 1-6

2 HDPE

2007 2008 2009 1-6 HDPE
 31.42% 34.62% 35.88%

HDPE

2007 2008 HDPE

2006

HDPE

HDPE

3

2008

2008

HDPE

2009 1-6

HDPE

HDPE

4

1

		2009		2008		2007	
PPR	1.00%	1.17%	1.17	1.43%	1.43	1.41%	1.41
PE	1.00%	0.95%	0.95	1.05%	1.05	1.12%	1.12
HDPE	1.00%	0.20%	0.20	0.25%	0.25	0.24%	0.24
PB	1.00%	0.10%	0.10	0.15%	0.15	0.25%	0.25
	1.00%	2.43%	2.43	3.07%	3.07	3.10%	3.10

2009

PPR

PE

HDPE



PB 1% 1.17%
 0.95% 0.20% 0.10% PPR PE

PB HDPE

2

		2009		2008		2007	
PPR	1.00%	-0.41%	-0.41	-0.60%	-0.60	-0.67%	-0.67
PE	1.00%	-0.65%	-0.65	-0.78%	-0.78	-0.77%	-0.77
PB	1.00%	-0.02%	-0.02	-0.07%	-0.07	-0.11%	-0.11
	1.00%	-0.02%	-0.02	-0.22%	-0.22	-0.23%	-0.23
	1.00%	-1.11%	-1.11	-1.66%	-1.66	-1.78%	-1.78

2009 PPR PE PB 1%
 0.41% 0.65% 0.02% 0.02%

	2009		2008		2007	
	14,282.12	24.40%	11,479.05	55.24%	7,394.38	41.91%
	4,246.13	13.29%	3,748.04	57.79%	2,375.32	48.53%
	1,147.16	-40.40%	1,924.70	37.24%	1,402.43	123.08%
	19,675.41	14.70%	17,151.78	53.52%	11,172.13	50.20%
	93,071.38	3.80%	89,665.67	28.00%	70,052.61	49.67%
/		21.14%		19.13%		15.95%

2007 2009 15.95%
 19.13% 21.14%

2007 2009

53.52% 14.70%



1

	2009			2008			2007
	2,772.14	316.87	12.91%	2,455.27	1,271.83	107.47%	1,183.44
	3,009.48	588.73	24.32%	2,420.75	716.69	42.06%	1,704.07
	2,025.91	368.86	22.26%	1,657.05	896.60	117.90%	760.45
	815.18	-143.09	-14.93%	958.27	309.79	47.77%	648.48
	996.62	191.31	23.76%	805.31	279.78	53.24%	525.53



	818.73	-11.65	-1.4%	830.38	577.06	227.80%	253.32
	155.66	11.69	8.12%	143.97	126.24	77.43%	163.03
	223.49	9.02	4.20%	214.47	37.29	21.05%	177.18
	238.65	32.10	15.54%	206.55	181.44	722.47%	25.11
	183.80	5.69	3.19%	178.11	174.26	4530.32%	3.85
	123.30	-42.23	-25.51%	165.53	234.45	-	-68.92
	154.50	26.86	21.04%	127.64	14.88	13.19%	112.77
	145.73	20.39	16.26%	125.34	41.21	48.99%	84.13
	122.97	28.37	29.99%	94.60	39.42	71.42%	55.19
	154.32	62.47	68.02%	91.85	-16.96	-15.59%	108.81
	362.91	177.31	95.53%	185.60	-152.44	-65.86%	231.46
	484.79	37.50	8.38%	447.29	-118.14	-20.89%	565.43
	4,246.14	498.10	13.29%	3,748.04	1,372.72	57.79%	2,375.32
	93,071.38	-	-	89,665.67	-	-	70,052.61
	4.56%	-	-	4.18%	-	-	3.39%

1

2 2007

2008

2008 1,372.72 57.79%
577.06
234.03

181.44

2009

2009 498.10 13.29%

179.32 2009 177.31

3



2008 2007
 1 2008 2006
 8
 2 2007 2008
 18,475 23,820
 2009 1,147.16
 2009 2009 2008

	2009		2008		2007	
		%		%		%
	124.14	0.75	106.17	0.92	-1,222.49	-10.29
	-	-	51.17	0.44	-	-
	705.57	4.29	1,165.16	10.10	957.57	8.06
	181.07	1.10	179.15	1.55	415.83	3.50
	524.50	3.19	986.01	8.55	541.75	4.56
	16,442.17	100.00	11,531.52	100.00	11,879.80	100.00

1
 -1,222.49 106.17 124.14
 -10.29% 0.92% 0.76% 2007
 -1,222.49 2007
 1,095.99
 2
 2007 2009 4.56%
 8.55% 3.19%



1

2007 2008 2009 942.94
 333.43 689.89

	2009	2008	2007
	187.25	120.91	924.64
	187.25	119.29	922.80
	-	20.25	-
	-	6.00	-
	24.00	30.00	-
	-	-	9.50
	-	6.26	8.80
	-	50.00	-
	1.00	25.00	-
	63.49	75.00	-
	2.65	-	-
	41.50	-	-
	105.00	-	-
ISO9000	1.00	-	-
	225.33	-	-
	38.67	-	-
	689.89	333.43	942.94

2007 2008 2009
 924.64 120.91 187.25 98.06% 36.26%
 27.14%

Q



7.78% 1.04% 1.14%

2006 10 1
[1994] 155

2006 10 1 2007 6 30
[2006]111

[2006]135

3.5

2007 7 1

2007 6 29

[2007]92

2007 67

2007 2008

[2006]133

2
2008

768.57

37,864.58

[2002] 1309

767.47



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2006 10 1

94 001

2006

7 10

[2006]111

[2006]135

2006 10 1

2007 6 30
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2007 7



2008

15%

2006 2007 15%

2008 18% 2009 20%

[1994] 001

[2008]71

2007

2007

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[1999]290

2007

111.15

2008 317.60

1

2007	1	215	541	39.74%	22	46	47.83%
2007	2	215	540	39.81%	22	47	46.81%
2007	3	215	582	36.94%	23	52	44.23%
2007	4	214	615	34.80%	23	52	44.23%
2007	5	216	633	34.12%	23	56	41.07%
2007	6	216	623	34.67%	23	56	41.07%
2007	7	213	634	33.60%	23	56	41.07%
2007	8	211	636	33.18%	23	60	38.33%
2007	9	209	653	32.01%	23	64	35.94%
2007	10	208	725	28.69%	23	61	37.70%
2007	11	206	810	25.43%	22	63	34.92%
2007	12	202	812	24.88%	21	64	32.81%
2008	1	193	826	23.37%	21	56	37.50%



2008	2	193	846	22.81%	27	62	43.55%
2008	3	188	858	21.91%	26	60	43.33%
2008	4	187	861	21.72%	30	65	46.15%
2008	5	185	823	22.48%	30	77	38.96%
2008	6	182	805	22.61%	30	77	38.96%
2008	7	180	820	21.95%	30	72	41.67%
2008	8	152	740	20.54%	31	68	45.59%
2008	9	153	734	20.84%	55	89	61.80%
2008	10	145	700	20.71%	54	88	61.36%
2008	11	120	637	18.84%	54	89	60.67%
2008	12	119	628	18.95%	54	89	60.67%
2009	1	124	609	20.36%	53	85	62.35%
2009	2	124	625	19.84%	52	82	63.41%
2009	3	124	622	19.94%	52	84	61.90%
2009	4	124	630	19.68%	53	84	63.10%
2009	5	124	642	19.31%	54	86	62.79%
2009	6	124	635	19.53%	54	86	62.79%
2009	7	124	655	18.93%	54	86	62.79%
2009	8	123	666	18.47%	55	87	63.22%
2009	9	123	668	18.41%	54	88	61.36%
2009	10	121	675	17.93%	54	87	62.07%
2009	11	121	676	17.90%	53	87	60.92%
2009	12	121	668	18.11%	53	86	61.63%

1 2006 10 , [2006]135

2006 10 1

2006 111

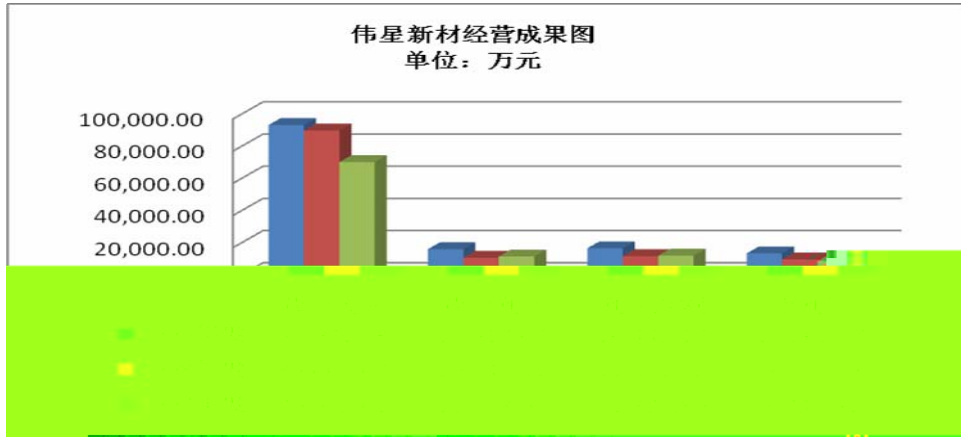
25%

2 2007 7 1 , [2007]92



25%	25%			10	10		
						25%	25%
	1.5%	1.5%			5	5	
			:				
					100%		
2							





2

2008

2007 792.54 6.99%

2009

15,917.67 5,372

50.94%

3

	2009		2008		2007
		%		%	
	16,442.17	42.58%	11,531.52	-2.93%	11,879.80

4

	2009			2008			2007
			%			%	
	93,071.38	3,405.71	3.80	89,665.67	19,613.06	28.00	70,052.61
	56,630.24	-4,777.37	-7.78	61,407.61	12,987.35	26.82	48,420.26
	36,441.14	8,183.08	28.96	28,258.06	6,625.71	30.63	21,632.35
	14,282.12	2,800.57	24.40	11,479.05	4,084.67	55.24	7,394.38
	4,246.13	498.09	13.29	3,748.04	1,372.72	57.79	2,375.32
	1,147.16	-777.54	-40.40	1,924.70	522.27	37.24	1,402.43
	19,675.41	2,521.12	14.70	17,151.79	5,979.66	53.52	11,172.13



	124.14	17.97	16.92	106.17	1,328.66	-108.68	-1,222.49
	15,917.67	5,372.16	50.94	10,545.51	-792.54	-6.99	11,338.05
	16,442.17	4,910.65	42.58	11,531.52	-348.28	-2.93	11,879.80
	3,179.60	1,161.28	57.54	2,018.32	-1,119.56	-35.68	3,137.88
	13,262.57	3,749.37	39.41	9,513.20	764.47	8.74	8,748.73

2008

2007

2009

2008

1 2008

9,513.20

764.47

8.74%

1

19,613.06

12,987.35

28.00% 26.82%

6,625.71

30.63%

PPR

HDPE

PE

PB

0.32%

10%

2

5,979.66

53.52%

3

1,119.56

35.68%

2008 1 1

25%

2008

15%

2 2009

13,262.57

3,749.37

39.41%

1 2009

3,405.71

4,777.37

8,183.08

28.96%

2009

2008

6.62%

2009



2009

1

:

	2009	%	2008	%
	9,264.24	7.81	23,997.45	25.36
	25.07	5.39	-459.62	-49.71
	725.51	72.51	-12,268.32	-92.46
	10,014.81	8.34	11,269.51	10.35
	-1,425.93	-1.78	-670.44	-0.83
	1,676.14	33.76	2,128.58	75.03
	488.14	5.11	4,020.78	72.59
	2,645.59	23.89	2,041.15	22.60
	3,383.95	3.21	7,520.07	7.68
	6,630.86	45.36	3,749.44	34.50

1 2008 2007 3,749.44

1 2008 2007 23,997.45

670.44

24,667.89 2 2008

12,268.32 3 4,020.78 4

4,169.73

2 2009 2008 6,630.86

45.36% 1 2009 9,264.24

1,425.93

10,690.17 2

2,645.59 23.89% 3

1,676.14

2



	2009		2008		2007	
1.	490.09		465.03		924.64	
(1)	291.50		317.60		-	
(2)	187.25		120.91		924.64	
2.	1,726.03		1,000.52		13,268.84	
(1)	782.62		725.20		2,137.33	
(2)	0		0		9,280.03	
(3)	502.64		186.00		9.50	
3.	6,641.51		4,965.37		2,836.79	
4.	10,048.08		9,559.94		5,539.16	
(1)	6,803.51		5,101.72		3,161.50	
(2)	2,347.89		3,889.00		1,826.22	
5.	13,718.06		11,072.47		9,031.32	



(1)	906.93		285.20		920.33	
(2)	3,009.48		2,423.79		1,728.95	
(3)	2,025.91		1,657.05		760.45	
(4)	960.91		1,083.61		732.61	*ü



	5	24.56	24.70	5.44
		1,611.96	2,041.88	2,222.44
		3,152.83	2,017.62	334.50
	1	-	9,968.74	690.19
	2	-	-	96.20
		-	9,968.74	786.39
		4,764.79	14,028.24	3,343.33

2007 2009 3,343.33 14,028.24
4,764.79

2007 2008 690.19 9,968.74

2007 2001

2008

“ 1 ”
2 “
”
“ ”

		2009	2008	2007
-	A	641.80	-3,480.32	2,057.95
	B	4,764.79	14,028.24	3,343.33
	C	126.43	94.99	138.66
	A+B+C	5,533.02	10,642.91	5,539.95

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8.5

18

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2009

12 30 600

13,600

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2012

20,000

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7.2

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10%

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PE

PE

1/3

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2008 4 25 2008

1	3.2	PPR	26,577.60		[2008]17
2	2.5	PE	14,486.37		[2008]16
3	1.5		7,536.03		[2008]18
			48,600.00	-	-

						1
1	3.2	PPR	26,577.60	22,636.63	3,940.97	100%
2	2.5	PE	14,486.37	12,384.11	2,102.26	100%
3	1.5		7,536.03	6,685.26	850.77	100%
			48,600.00	41,706.00	6,894.00	-

2009

13,206.73

6,593.84

4,070.06

2,542.83

1-3

7,816.13 2,963.26 2,427.34



1	3.2	PPR	26,577.60	86,661	13,764	4.33
2	2.5	PE	14,486.37	44,775	4,951	5.41
3	1.5		7,536.03	19,512	2,460	5.27
			48,600.00	150,948	21,175	-

1	3.2	PPR	16,100	32,000	48,100
2	2.5	PE	18,400	25,000	43,400
3	1.5		5,300	15,000	20,300
			39,800	72,000	111,800

46,300

39,800

PPR

1,900

PE

2,800

HDPE

1,800

6,500

1

2008 5 6

2

2008 2



2008 5308 " " 2008 5307
" "

PVC PE PP

" "

1
PPR

PPR

PE

PE

PE



PE PE

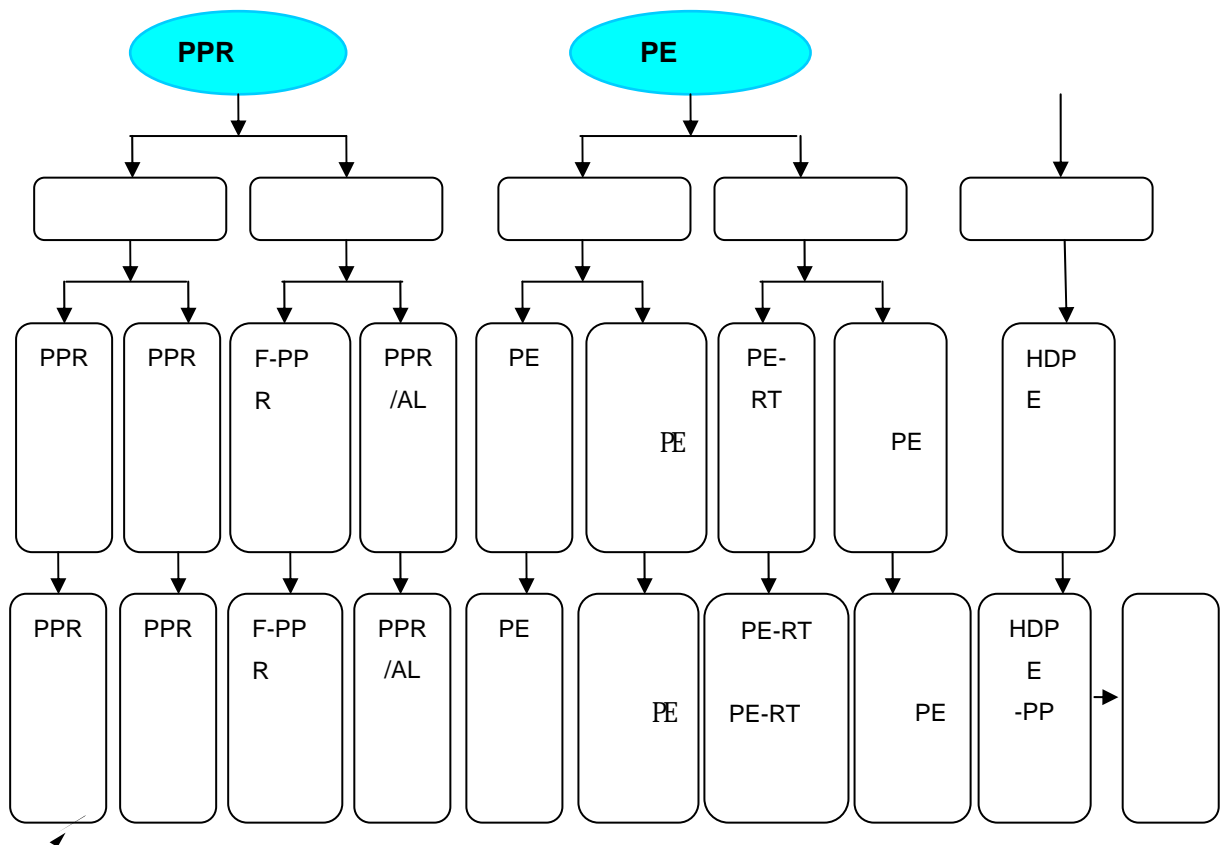
PE

2003 250 132

52.8%

2

3





3.2

PPR

1

“ ”

2000 6 1

	PAP	PE-X
PPR	2004	218

2

PPR

PPR

		WAVIN
GEORG FISCHER	30	PPR

3 5

30 50
3 PPR



PPR PAP PEX PB PVC-U
PPR

	PPR	PAP	PEX	PB	PVC-U

PPR

4 PPR

PPR

PPR

F-PPR

PPR/AI

PPR

PPR

PPR

PPR

PPR

F-PPR

PPR/AI

F-PPR

PPR/AI

F-PPR

PPR/AI

PPR

F-PPR

PPR/AI



PPR	PPR	
F-PPR		
PPR/AI		

1

“ ”

20

13

“ ”

20.3

26

0.8%

1,000

2.6

2000

“ ”

“ ”

250

2007

40

PPR

22

55%

2010

58

PPR

60%

34

PPR

	2003	2006	2007	2010
	19.5	32.5	40	58
PPR	-	-	22	34

2



“ ” 2010

2010 80% 2007

50% 2007

659 “ ”

PPR

PPR F-PPR PPR/AI

3 PPR

GDP

2008 GDP 300,670

9.0% 2002 10%

,2009 2 94.86 2008 12

1.6 10.69 5

“

”

9,000

2009 2011 200 400

100 3,000

2009 1.3 8,000

“ ” 5

10 2009 3,000

1.2 2010 6,500 2.5



2.5

2009

3,000

20%

5,000

“

”

900

2007

,

1,000

PPR

/

PPR

PPR

PPR

1

99%

PPR

PPR



	1 2 3 4	PPR - 	1 2 PPR/AI 	1 2 3 4 56%
	1 2 3 4	PP 	1 2 - 	1 2 3 PP

2

5

3

“ ”

PPR

1		



2	PPR		
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3

“ ” “ ” “ ”

“ ” “ ” “ ”

PPR

4

1 2004 PPR

VI

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2

ERP

3

“ ”

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“ ”

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6

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PPR “ ” “
 ”
 PPR
 1
 PPR

PE-RT
 PPR
 PB
 PPR PE MPP
 2
 1 PPR
 PPR 3.2
 1
 70% 90%
 100%
 2010 2011
 2011 2013 100% 2008
 2008 2009 2010

	2008	2009	2010	2011	2012	2013	2014
	0.13	0.06	0.77	1.28	0.64	0.32	-
	4%	6%	30%	70%	90%	100%	100%



	1.74	1.80	2.57	3.85	4.49	4.81	4.81
	1.48	1.67	2.07	2.56	3.18	3.94	4.89
/	85%	93%	81%	66%	71%	82%	102%

1 2008 -2010

2 2005 -2007 PPR 24.74% 2005 -2009

PPR 17.88% 2008 2009

2010 -2014 PPR 24% 2010

-2014 PPR 17.88% 2015

3 2008 2009

2013

100% 2013 2014

PPR

2 PPR

2009 PPR 60.93%

10.25% 7.06% 3.41% 5.07% 8.94%

2008 32,000 48,100

	PPR			
		%		%
	10,161	60.93	24,531	51
	1,710	10.25	5,772	12
	1,178	7.06	3,367	7
	568	3.41	3,367	7
	846	5.07	3,367	7
	1,492	8.94	4,810	10
	723	4.34	2,886	6
	16,677	100	48,100	100



3	
4	
3	
	2011
1	
	“ ”
	“ ”
	“ ”
2	
3	



2009 13,600 2,000
2012 2

4

PPR

PPR F-PPR PPR/AI

1

1	PPR	De16-160mm	13,600	GB/T18742.2-2002
2	F-PPR	De16-160mm	5,600	CJ/T258-2007
3	PPR/AI	De16-160mm	5,440	CJ/T210-2005
4	PPR	De16-160mm	7,360	GB/T18742.3-2002
			32,000	

2

26,577.60 22,636.63
3,940.97



1	3,632.93
2	13,552.42
3	297
4	67.76
5	5,086.52
	22,636.63
	3,940.97
	26,577.60

10,975

PPR	De16-63	15	100	1,500
PPR	De50-160	3	150	450
F-PPR	De16-63	6	140	840
F-PPR	De50-160	2	210	420
PPR/AI	De16-63	6	130	780
PPR/AI	De50-160	2	180	360
	100-500g	75	18	1,350
	500-5000g	15	50	750
	De16-160	4	70	280
	De16-160	1,600	1.5	2,400
	-	4	15	60
	-	1	150	150
	-	2	30	60
	-	1	80	80
	-	35	7	245
	-	35	24	840
	-	7	10	70
		3	40	120
	5	6	10	60
	-	5	8	40
	-	1	120	120
				10,975



1	PPR	GB/T18742-2002
2	F-PPR	CJ/T258-2007 PPR
3	PPR/AI	CJ/T259-2005 PPR
4	PPR	GB/T18742.3-2002 3

4

1 PPR

PPR

PPR



PPR

PPR

PPR

4 PPR

AIP

CAE/CAM

PPR

PPR

5

“ ” “ ”

6

PPR

PPR

7

1

70%

90%

8

86,661

13,764

38.48%

4.33



2.5

PE

1

“ ”

“ ”

2010

2010

70%

70%

60%

2007

30%

PE

659

“ ”

“

” “

” “

”

PE

PE

2 PE

PVC

PE

PVC

“ ”

PVC

PE



		PVC	PE
	30	50	50

PE PE

PE63 PE80 PE100 PE-RT
 PEX UHWMPE PE
 PE-RT
 PEX
 UHWMPE

3 PE PE PE-RT

PE

PE

PE

/

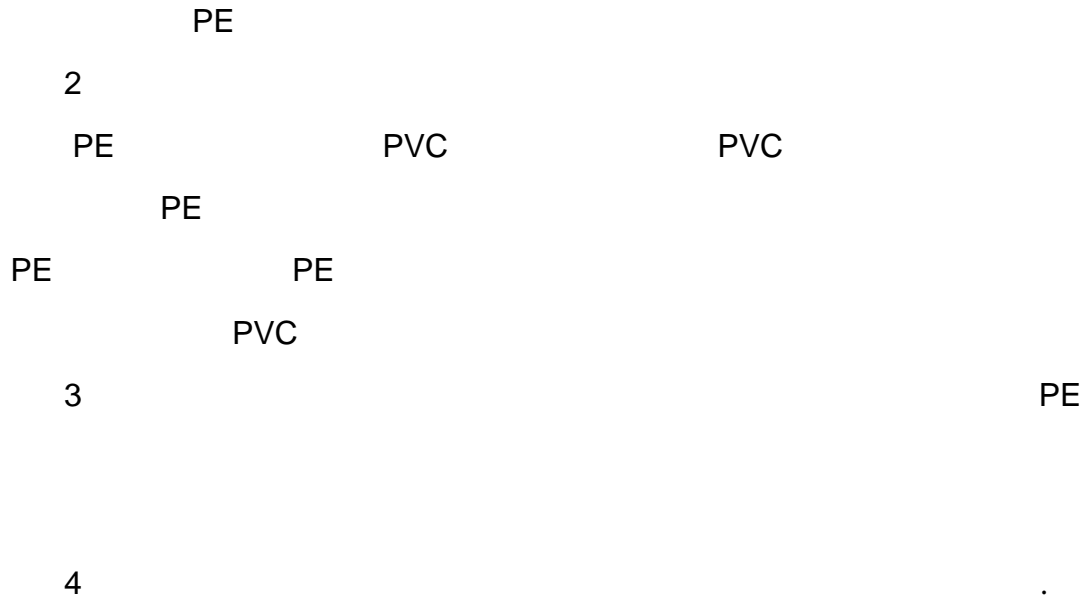
PE

	PE	PE	PE	PE-RT
			PVC	
	30%			
	PE PB	PE PVC	PE	PE-RT PAP PEX PB
PE				

1

PE

PB





1

PE

2007

PE

42

2010

60

2

PVC

PE

2007

46

PE

3%

1.5

PE

2010 PE

6

3

PE

1 1 1(

2007

10

PE

) 2005

6

2010

40 (

2006

19

2005

)

PE

2010

6

4

2005

30%

PE-RT

PEX

PEX

PE-RT



2~3 PEX

2007 PE-RT PEX

6 PE-RT 2.5

2010 PE-RT 5

2010 PE 77 /

PE

PE

2 PE

PE-RT

2008

PE 4

PE PE-RT

“ ” PE

PE PE PE PE PE

PE

PE

PE

1



PE
1 PE
PE / PE
PE-RT PE-RT
2 PE 16-630mm
PE
2

PE

PE	1 2 PE 3 PE 4
PE	1 PE 0.42 0.55 30% 2 —
/ PE	1 2 3
PERT	1 PE-RT 2 PE-RT EVOH 3 EVOH

3

PE

PE



“ ”

4

PE

2001

PE

PE

PPR

/

“ ”

PE

PE

“ ” “

”

PE

1

PE

PE

PE-RT

/

PE

PE

PE

PE

PE-RT

PE

/

PE

PE-RT

PE

PE

2 PE

1 PE

PE

2.5

1



70% 90%

100%

2010 2011

2011 2013 100% 2008

2008 2009 2010

	2008	2009	2010	2011	2012	2013	2014
	0.01	0.27	0.47	1.00	0.50	0.25	-
	0.4%	11.2%	30%	70%	90%	100%	100%
	1.85	2.12	2.59	3.59	4.09	4.34	4.34
	1.57	2.02	2.42	2.91	3.49	4.18	5.02
/	85%	95%	93%	81%	85%	96%	116%

1 2008 -2010

2 2005 -2007 PE 21.46% 2005 -2009

PE 19.13% 2008 2009

2010 -2014 PE 20% 2010

-2014 PE 19.13% , 2013 2014

PE

3 2008 2009

2013

100% 2013 2014

PE

2 PE

2009 PE 57.37%

25.49% 8.96% 2.77% 2.39% 1.73%

1.3% 2008 25,000

43,400

	PE			
	2009			
		%		%



	11,576	57.37	22,568	52
	5,143	25.49	7,812	18
	1,808	8.96	3,472	8
	558	2.77	3,038	7
	481	2.38	3,038	7
	350	1.73	2,170	5
	261	1.30	1,302	3
	20,178	100	43,400	100

PE

PE

PE-RT

PPR

3 PE

2001

PE

PE

2011

1

“

”

“

”

PE



“ ”

800

2

PE

PE

3

PE

PE

PE-RT

PE RT

PEX

PE RT

PPR

PE

/

PE

PE

/

U-PVC



1

1	PE	20-400mm	6,000	1,000	GB/T13663-2000 GB/T13663.2-2005
2	PE	25-315mm	6,400	600	GB/T13663-2000 GB/T13663.2-2005
3	/ PE	32-400mm	4,800	1,200	CJ/T250-2007
4	PE-RT	16-32mm	4,500	500	CJ/T 175-2002
			21,700	3,300	

2

14,486.37

12,384.11

2,102.26

1	1,918.64
2	6,497.72
3	178.51
4	51.98
5	3,737.26
	12,384.11
	2,102.26
	14,486.37

5,689

PE/PERT	De16-63	12	100	1,200
PERT	De16-32	1	120	120
PE	De50-250	4	180	720
PE	De160-400	1	250	250
	100-500g	15	18	270
	500-5,000g	20	50	1,000



	5,000-20,000g	2	150	300
	De315-400	1	50	50
	De25-250	2	70	140
	De63-315	1	30	30
		1	35	35
PE	De 20-400	120	2	240
/	De 40-315	300	2	600
PERT	De 16-32	50	1	50
PE	De 25-315	30	1.5	45
		1	100	100
		2	30	60
		1	80	80
		19	7	133
		4	10	40
		2	40	80
		2	8	16
		5	10	50
		1	80	80
				5,689

3

1	PE	1 PE	GB/T13663-2000 GB/T13663.2-2005 PE
2	PE	1 PE	GB/T13663-2000 GB/T13663.2-2005 PE
3	/ PE	HDPE	CJ/T 250-2007
4	PE-RT		CJ/T 175-2002 PE-RT

4

1 PE

PE

PE

PE



/ PE PE
PE
2 PE-RT
PE-RT2



U

/

5

“ ” “ ”

6

PE PE-RT EVOH

7

1 70%

90%

8

44,775 4,951

25.53%

5.41

1.5

1

“ ” 2010

2010

30% 2007

20%

2000 11

2001

36

2004



659

“ ”

“ ”

2

50

PE PVC PVC HDPE
PE PE PVC

	HDPE		PE	PE	
				/	
	2 8	10	2 8	10.5 16	1.2 10
	50	30	50	50	50

HDPE

HDPE

3



PP

1

50%

250

132

52.8%

2003

“ ”

“ ”

162,724

30,000

78,874

53,850

2010

247,734

70%

2005

96%



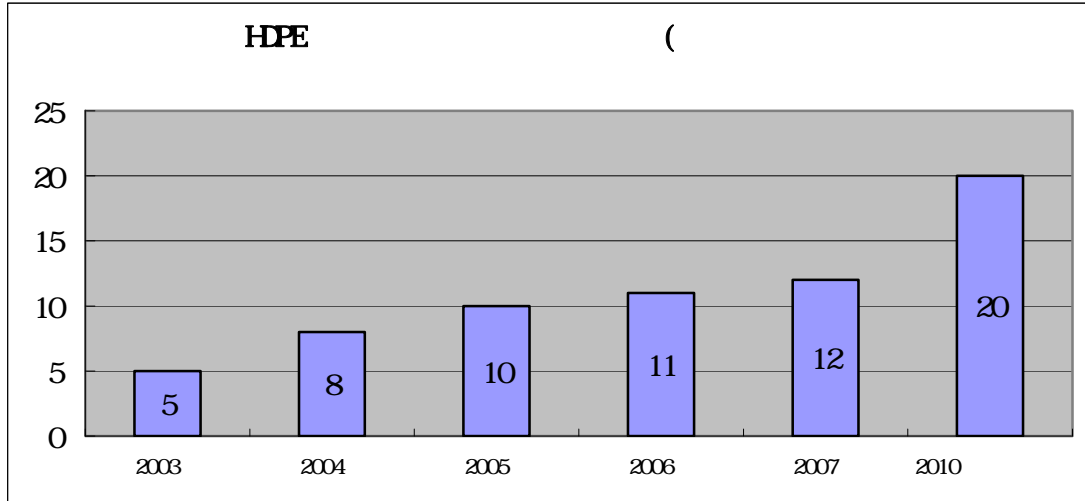
“

”

60

2010

20



2

HDPE

2008

2008

4

HDPE

PP

1

U-PVC

PE

DN 1200mm

2



DROSSBACH

HDPE

PP

3

“ ”

302007)Tj<6736007-8.545 -a>]3TD .040cd1118a2c580cd522b6348d31750dce2e14732



2008 2009 2010

	2008	2009	2010	2011	2012	2013	2014
	0.06	0.12	0.27	0.60	0.30	0.15	-
	4%	12%	30%	70%	90%	100%	100%
	0.59	0.71	0.98	1.58	1.88	2.03	2.03
	0.48	0.58	0.75	0.98	1.27	1.65	2.14
/	81%	82%	77%	62%	68%	81%	105%

1 2008 -2010

2 2005 -2007

30.27% 2005 -2009

25.12%

2010 -2014

30%

2010 -2014

25.12%

2014



	5,774	100.00	20,300	100
--	-------	--------	--------	-----

HDPE

HDPE

3

2004

HDPE

HDPE

2011

1

“

”

2



PPR PE

3

HDPE

4

HDPE

PP

PP

4

1



	DN200-1200mm	14,500	GB/T19472.1-2004
	DN200-400mm	500	CJ/T233-2006

2

7,536.03

6,685.26

850.77

1



	-	1	400	400
	-	-	-	3,134

3

1		GB/T19472.1-2004 PE 1 :
2		CJ/T233-2006

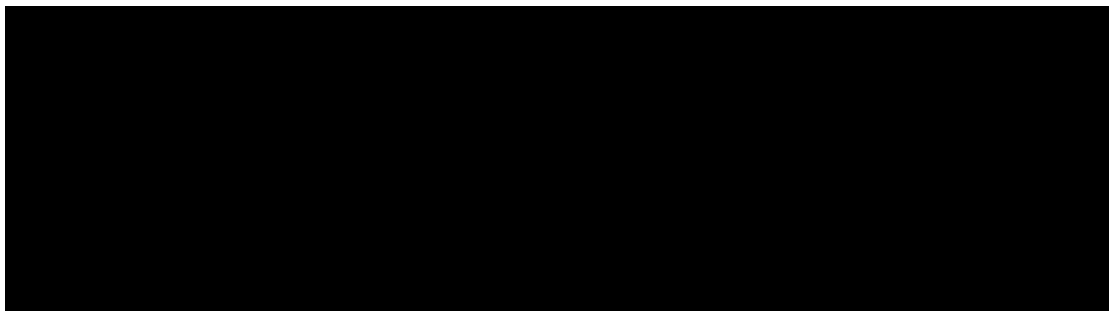
4

1

2

5

“ ” “ ”



6

HDPE

PP



3%

PE

“ ”

PPR 2007 22 2010 34
15% 2013 52
2013 PPR 4.81
9% 2008 3%
PE 2007 42 2010 60
13% 2008 4
PE 13%
2013 PE 87 2010 PE
6 PE 6 PE-RT
5 20%
2013 29 PE
2013 116 2013 PE
4.34 4% 2008
1%

50% 2008 12
2010 20 20% 2008
4
2008 2007 30%
25% 2013 46 2013
2.03



4%

2008

1%

3% 6%

2008

2009





1

2008

2009

2008 12 PPR PE
HDPE 10%
2009
F-PPR PPR/AI PE
/ PE PE-RT
PPR 2009 12 HDPE
PPR PE
2008

2

2007

PPR PE HDPE
2009 48.19 % 33.10% 33.73%

3

2007 2008 2009 10.56%



12.80% 15.35%

2008 2009

11.36%

9.75%

3.39% 4.18% 4.56%

3.35%

4.42%

17.22%

14.71%

14.17%

2009	23,779.57	91,658.10	3.85	16,442.17	0.69	
2008	18,686.00	86,693.01	4.64	11,531.52	0.62	
	PPR	22,636.63	86,661.00	3.83	13,764.00	0.61
	PE	12,384.11	44,775.00	3.62	4,951.00	0.40
		6,685.27	19,512.00	2.92	2,460.00	0.37
		41,706.01	150,948.00	3.62	21,175.00	0.51

2008

2009

48,600



32,877

	2009	2008	2007
	23,779.57	18,686.00	17,070.33
1	17,039.40	15,631.37	13,654.84
2	6,665.79	2,996.12	3,381.67
	47,800	43,300	38,700
/ /	2.81	2.77	2.83
/ /	7.17	14.45	11.44
/ /	2.01	2.32	2.27

	PPR	PE		
	19,026.90	9,386.41	4,464.22	32,877.53
1	15,393.97	7,467.77	3,748.63	26,610.37
2	3,632.93	1,918.64	715.59	6,267.16
	32,000.00	25,000.00	15,000.00	72,000.00
/ /	2.08	3.35	4.00	2.71
/ /	8.81	13.03	20.96	11.49
/ /	1.68	2.66	3.36	2.19

2007 2008 2009 2.27 2.32
2.01 2.20 2.19

2007 2008 2009 2.83 2.77
2.81 2.80 2.71

1

32,877.53

3,177.17



1	3.2	PPR	19,026.90	1,853.49
2	2.5	PE	9,386.41	886.07
3	1.5		4,464.22	437.61
			32,877.53	3,177.17

2007 2008 2009 32.24%
32.57% 39.18% 32.24%

9,854.75

2008 2007 20,597.80
31.16% 2009 2008 4,965.09 5.73%

2

3





2009	2009 8 5	2009	2009
		190,000,000	10
	5	95,000,000.00	
	5,726,697.37		
2009	2010 1 28		
	2009		

2008

1

2

1 2

3 2

50%

3

15%

2009 12 31

2009

8,339.72



<http://www.cninfo.com.cn>

0576-85225086

0576-85305080

1

2

3

500

500

1





							2009.5.14
10	33101201 00000320 9		1,500	2010.1.19- 2011.1.18	4.779	2010.1.19	

2

					%	/	
1	12302009 031		1,000	2009.8.24- 2010.8.17	1%	2009.8.19	12302009031, 2009.8.19 12302009031, 2009.8.19

1 2009 11 28

HD-1001-SZ-XS-6022,

1200

2010 1 2010 12

2 2009 12 18

2010

10-001

HDPE

2009 12 18 2010 12 18

1 2009 4 1



	PE					4,000			2009	4
1	2011	12	31							
	2	2009	10	10						
				PE	,				,	
	2009	10	10	2010	10	10				
	3	2009	11	15						
				PE	,				,	
	2009	11	15	2010	11	15			"	2"
	4	2010	1	1						
							PPR			PE
				U-PVC					U-PVC	
	PE									
500				2010	1	1	2010	12	31	
					30					
					5					
	5	2010	1	1						
							PPR			U-PVC
		PE				U-PVC				
									1,010	
		2010	1	1	2010	12	31		"	4"
	6	2009	8	17						
							HDPE			
	HDPE									
				2009	8	17				
									1%	5%



7 2009 8 8

2009

8 8

“ 6”

8 2009 8 17

HDPE

2009 8

17

“ 6”

9 2010 1 1

PPR

F-PPR

PPR

U-PVC

U-PVC

PE

600

2010 1 1

2010 12 31

8

9

30

10 2010 1 1

HDPE

HDPE

500

2010 1

1 2010 12 31

11 2010 1 12

PE100

2010

1 12 2011 12 30

5%

12 2009 3 4

PP-R



2010 1 30 500 2009 2 1
“ 4”
13 2009 12 10
2010
PP-R



2009 9 21 2010 6 15 28,203,294

1 2009 4 25

PZAH200933100100000001

“ ” PE PB PP U-PVC

150,000 5,000 145,000
600,000 12 2009 4 29 2010 4
28

2 2009 4 29

AQAD0012HQD2009B000021

17,285.24 17.29 2009
3 10% 2000
2009 4 30 2010 4 29




第十六节 董事、监事、高级管理人员及有关中介机构声明

公司全体董事、监事、高级管理人员声明

本公司全体董事、监事、高级管理人员承诺本招股说明书及其摘要不存在虚假记载、误导性陈述或重大遗漏，并对其真实性、准确性、完整性承担个别和连带的法律责任。

公司全体董事签字：

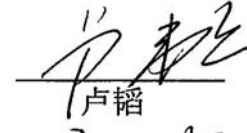

金红阳

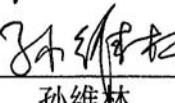

章卡鹏


张三云


谢瑾琨


冯济府

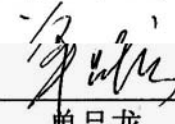

卢韬



孙维林

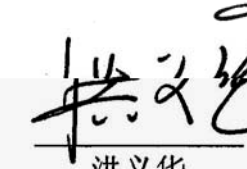

钱丽君


毛美英


公司全体监事签字：


单吕龙


戚锦秀

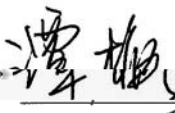

洪义华

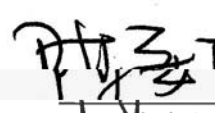
公司全体高级管理人员签字：


金红阳


屈三炉


施国军


谭梅


陈安门





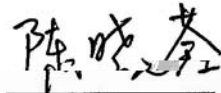
保荐人（主承销商）声明

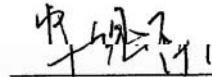
本公司已对招股说明书及其摘要进行了核查，确认不存在虚假记载、误导性陈述或重大遗漏，并对其真实性、准确性和完整性承担相应的法律责任。

法定代表人：

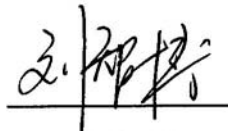

矫正中

保荐代表人：


陈晓荃


郭旭华

项目协办人：


刘智博





发行人律师声明

本所及经办律师已阅读招股说明书及其摘要，确认招股说明书及其摘要与本所出具的法律意见书和律师工作报告无矛盾之处。本所及经办律师对发行人在招股说明书及其摘要中引用的法律意见书和律师工作报告的内容无异议，确认招股说明书不致因上述内容而出现虚假记载、误导性陈述或重大遗漏，并对其真实性、

准确性和完整性承担相应的法律责任。

经办律师签名：

王永康

蓝晓东

律师事务所负责人：

蓝晓东





审计机构声明

本所及签字注册会计师已阅读浙江伟星新型建材股份有限公司招股说明书及其摘要，确认招股说明书及其摘要与本所出具的审计报告、内部控制鉴证报告及经本所核验的非经常性损益明细表无矛盾之处。本所及签字注册会计师对发行人在招股说明书及其摘要中引用的审计报告、内部控制鉴证报告及经本所核验的非经常性损益明细表的内容无异议，确认招股说明书不致因上述内容而出现虚假记载、误导性陈述或重大遗漏，并对其真实性、准确性和完整性承担相应的法律责任。

签字注册会计师：



葛徐



吴懿忻

会计师事务所负责人：

胡少先

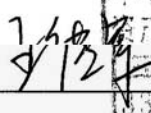


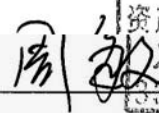


资产评估机构声明

本机构及签字注册资产评估师已阅读招股说明书及其摘要，确认招股说明书及其摘要与本机构出具的资产评估报告无矛盾之处。本机构及签字注册资产评估师对发行人及中介机构提供的资产评估报告的内容

经办注册资产评估师：


王传军


周敏

资产评估机构负责人：


俞华开








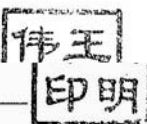
验资机构声明

本机构及签字注册会计师已阅读浙江伟星新型建材股份有限公司的招股说明书及其摘要，确认招股说明书及其摘要与本机构出具的验资报告无矛盾之处。本机构及签字注册会计师对发行人在招股说明书及其摘要中引用的验资报告的内容无异议，确认招股说明书不致因上述内容而出现虚假记载、误导性陈述或重大遗漏，并对其真实性、准确性和完整性承担相应的法律责任。

经办注册会计师：

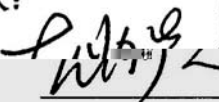
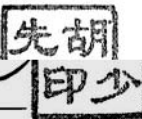
 

吴懿忻

王明伟

验资机构负责人：

胡少先



天健会计师事务所有限公司

2010年7月28日



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0576-85305080

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010-68573828

010-68573837

9:00-11:00

2:00-4:00

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