

MARKETS AND PROFITABILITY

Market Analytics: Styrene, Polystyrene and Styrene Butadiene Rubber - 2018

September 2018



This Report was prepared by Nexant, Inc. ("Nexant"). Except where specifically stated otherwise in this Report, the information contained herein is prepared on the basis of information that is publicly available, and contains no confidential third party technical information to the best knowledge of Nexant. Aforesaid information has not been independently verified or otherwise examined to determine its accuracy, completeness or financial feasibility. Neither Nexant, Subscriber nor any person acting on behalf of either assumes any liabilities with respect to the use of or for damages resulting from the use of any information contained in this Report. Nexant does not represent or warrant that any assumed conditions will come to pass.

The Report is submitted on the understanding that the Subscriber will maintain the contents confidential except for the Subscriber's internal use. The Report should not be reproduced, distributed or used without first obtaining prior written consent by Nexant. Each Subscriber agrees to use reasonable effort to protect the confidential nature of the Report.

Copyright © by Nexant Inc. 2018. All rights reserved.



Contents

1	Executive Summary	1
1.1	Introduction.....	1
1.2	Styrenics Overview.....	3
1.3	Styrenics Derivatives.....	8
2	The Styrenics Industry.....	13
2.1	Introduction.....	13
2.2	Uses of Styrenics	14
2.3	Market Coverage.....	16
3	Styrene	17
3.1	Global	17
3.1.1	Key Developments	17
3.1.2	Consumption	17
3.1.3	Supply	21
3.1.4	Supply, Demand and Trade	24
3.2	North America	27
3.2.1	Key Developments	27
3.2.2	Consumption	27
3.2.3	Supply	30
3.2.4	Supply, Demand and Trade	33
3.3	South America.....	36
3.3.1	Key Developments	36
3.3.2	Consumption	36
3.3.3	Supply	38
3.3.4	Supply, Demand and Trade	40
3.4	Western Europe	42
3.4.1	Key Developments	42
3.4.2	Consumption	42
3.4.3	Supply	44
3.4.4	Supply, Demand and Trade	46
3.5	Central Europe	48
3.5.1	Key Developments	48
3.5.2	Consumption	48
3.5.3	Supply	50
3.5.4	Supply, Demand and Trade	51
3.6	Eastern Europe	53
3.6.1	Key Developments	53
3.6.2	Consumption	53
3.6.2.1	Russia	53
3.6.2.2	Other Eastern Europe	54
3.6.3	Supply	54
3.6.3.1	Russia	54



3.6.3.2	Other Eastern Europe	55
3.6.4	Supply, Demand and Trade	55
3.6.4.1	Russia	55
3.6.4.2	Other Eastern Europe	57
3.7	Middle East.....	59
3.7.1	Key Developments	59
3.7.2	Consumption	59
3.7.3	Supply	61
3.7.4	Supply, Demand and Trade	62
3.8	Africa	64
3.8.1	Key Developments	64
3.8.2	Consumption	64
3.8.3	Supply	66
3.8.4	Supply, Demand and Trade	66
3.9	Asia Pacific.....	67
3.9.1	Key Developments	67
3.9.2	Consumption	67
3.9.2.1	China	69
3.9.2.2	North-East Asia	70
3.9.2.3	South-East Asia	70
3.9.2.4	South Asia.....	70
3.9.3	Supply	72
3.9.3.1	China	72
3.9.3.2	North-East Asia	74
3.9.3.3	South-East Asia	75
3.9.3.4	South Asia.....	75
3.9.4	Supply, Demand and Trade	80
3.9.4.1	China	80
3.9.4.2	North-East Asia	81
3.9.4.3	South-East Asia	82
3.9.4.4	South Asia.....	83
4	Polystyrene (GPPS/HIPS)	85
4.1	Global	85
4.1.1	Key Developments	85
4.1.2	Consumption	85
4.1.3	Supply	88
4.1.4	Supply, Demand and Trade	90
4.2	North America	92
4.2.1	Key Developments	92
4.2.2	Consumption	92
4.2.3	Supply	96
4.2.4	Supply, Demand and Trade	97
4.3	South America.....	100
4.3.1	Key Developments	100



4.3.2	Consumption	100
4.3.3	Supply	102
4.3.4	Supply, Demand and Trade	104
4.4	Western Europe	105
4.4.1	Key Developments	105
4.4.2	Consumption	105
4.4.3	Supply	106
4.4.4	Supply, Demand and Trade	109
4.5	Central Europe	110
4.5.1	Key Developments	110
4.5.2	Consumption	110
4.5.3	Supply	111
4.5.4	Supply, Demand and Trade	113
4.6	Eastern Europe	114
4.6.1	Key Developments	114
4.6.2	Consumption	114
4.6.2.1	Russia	114
4.6.2.2	Other Eastern Europe	115
4.6.3	Supply	116
4.6.3.1	Russia	116
4.6.3.2	Other Eastern Europe	117
4.6.4	Supply, Demand and Trade	118
4.6.4.1	Russia	118
4.6.4.2	Other Eastern Europe	119
4.7	Middle East.....	121
4.7.1	Key Developments	121
4.7.2	Consumption	121
4.7.3	Supply	123
4.7.4	Supply, Demand and Trade	124
4.8	Africa	126
4.8.1	Key Developments	126
4.8.2	Consumption	126
4.8.3	Supply	128
4.8.4	Supply, Demand and Trade	129
4.9	Asia Pacific.....	130
4.9.1	Key Developments	130
4.9.2	Consumption	130
4.9.2.1	China	130
4.9.2.2	North-East Asia	131
4.9.2.3	South-East Asia	133
4.9.2.4	South Asia	134
4.9.3	Supply	136
4.9.3.1	China	136
4.9.3.2	North-East Asia	137



4.9.3.3	South-East Asia	137
4.9.3.4	South Asia.....	138
4.9.4	Supply, Demand and Trade	143
4.9.4.1	China	143
4.9.4.2	North-East Asia.....	143
4.9.4.3	South-East Asia	144
4.9.4.4	South Asia.....	145
5	Expandable Polystyrene (EPS)	147
5.1	Global	147
5.1.1	Key Developments	147
5.1.2	Consumption	147
5.1.3	Supply	151
5.1.4	Supply, Demand and Trade	153
5.2	North America	155
5.2.1	Key Developments	155
5.2.2	Consumption	155
5.2.3	Supply	157
5.2.4	Supply, Demand and Trade	159
5.3	South America.....	161
5.3.1	Key Developments	161
5.3.2	Consumption	161
5.3.3	Supply	163
5.3.4	Supply, Demand and Trade	165
5.4	Western Europe	166
5.4.1	Key Developments	166
5.4.2	Consumption	166
5.4.3	Supply	168
5.4.4	Supply, Demand and Trade	171
5.5	Central Europe	172
5.5.1	Key Developments	172
5.5.2	Consumption	172
5.5.3	Supply	173
5.5.4	Supply, Demand and Trade	175
5.6	Eastern Europe	176
5.6.1	Key Developments	176
5.6.2	Consumption	176
5.6.2.1	Russia	176
5.6.2.2	Other Eastern Europe	177
5.6.3	Supply	178
5.6.3.1	Russia	178
5.6.3.2	Other Eastern Europe	179
5.6.4	Supply, Demand and Trade	179
5.6.4.1	Russia	179
5.6.4.2	Other Eastern Europe	179



5.7	Middle East.....	183
5.7.1	Key Developments	183
5.7.2	Consumption	183
5.7.3	Supply	185
5.7.4	Supply, Demand and Trade	186
5.8	Africa	188
5.8.1	Key Developments	188
5.8.2	Consumption	188
5.8.3	Supply	189
5.8.4	Supply, Demand and Trade	189
5.9	Asia Pacific.....	190
5.9.1	Key Developments	190
5.9.2	Consumption	190
5.9.2.1	China	191
5.9.2.2	North-East Asia	192
5.9.2.3	South-East Asia	193
5.9.2.4	South Asia	194
5.9.3	Supply	196
5.9.3.1	China	196
5.9.3.2	North-East Asia	197
5.9.3.3	South-East Asia	197
5.9.3.4	South Asia	197
5.9.4	Supply, Demand and Trade	202
5.9.4.1	China	202
5.9.4.2	North-East Asia	202
5.9.4.3	South-East Asia	203
5.9.4.4	South Asia	204
6	Styrene Butadiene Rubber (SBR)	206
6.1	Global	206
6.1.1	Key Developments	206
6.1.2	Consumption	206
6.1.2.1	Tyre Production.....	207
6.1.2.2	Third Party Services and E-mobility	208
6.1.2.3	Vehicle Production	209
6.1.2.4	Natural Rubber.....	209
6.1.3	Supply	212
6.1.4	Supply, Demand and Trade	215
6.2	North America	218
6.2.1	Key Developments	218
6.2.2	Consumption	218
6.2.2.1	Tyre Production.....	219
6.2.2.2	Vehicle Production	222
6.2.3	Supply	223
6.2.4	Supply, Demand and Trade	225



6.3	South America	228
6.3.1	Key Developments	228
6.3.2	Consumption	228
6.3.2.1	Tyre Production	229
6.3.2.2	Vehicle Production	230
6.3.3	Supply	230
6.3.4	Supply, Demand and Trade	233
6.4	Western Europe	234
6.4.1	Key Developments	234
6.4.2	Consumption	234
6.4.2.1	Tyre Production	235
6.4.2.2	Automotive Production	238
6.4.3	Supply	238
6.4.4	Supply, Demand and Trade	241
6.5	Central Europe	243
6.5.1	Key Developments	243
6.5.2	Consumption	243
6.5.2.1	Tyre Production	244
6.5.2.2	Automotive Production	245
6.5.3	Supply	245
6.5.4	Supply, Demand and Trade	247
6.6	Eastern Europe	249
6.6.1	Key Developments	249
6.6.2	Consumption	249
6.6.2.1	Russia	249
6.6.2.2	Other Eastern Europe	251
6.6.3	Supply	252
6.6.3.1	Russia	252
6.6.3.2	Other Eastern Europe	253
6.6.4	Supply, Demand and Trade	253
6.6.4.1	Russia	253
6.6.4.2	Other Eastern Europe	254
6.7	Middle East	257
6.7.1	Key Developments	257
6.7.2	Consumption	257
6.7.2.1	Tyre Production	258
6.7.2.2	Automotive Production	259
6.7.3	Supply	260
6.7.4	Supply, Demand and Trade	262
6.8	Africa	264
6.8.1	Key Developments	264
6.8.2	Consumption	264
6.8.3	Supply	266
6.8.4	Supply, Demand and Trade	267



6.9	Asia Pacific	269
6.9.1	Key Developments	269
6.9.2	Consumption	269
6.9.2.1	China	271
6.9.2.2	North-East Asia	272
6.9.2.3	South-East Asia	273
6.9.2.4	South Asia	276
6.9.2.5	Australasia	276
6.9.3	Supply	278
6.9.3.1	China	278
6.9.3.2	North-East Asia	279
6.9.3.3	South-East Asia	279
6.9.3.4	South Asia	281
6.9.4	Supply, Demand and Trade	285
6.9.4.1	China	286
6.9.4.2	North-East Asia	286
6.9.4.3	South-East Asia	287
6.9.4.4	South Asia	289
6.9.4.5	Australasia	289

Appendices

A	Methodology	292
A.1	Market Dynamics Forecasting Methodology	292
A.1.1	Capacity Availability and Forecasting	292
A.1.2	End-Use Consumption Forecasting	292
A.1.2.1	End-Use Sector Growth	293
A.1.2.2	Penetration (New Application Growth)	293
A.1.2.3	Short-term Influences	294
A.1.3	Monomer Consumption Forecasting	294
A.1.4	Production and Trade Forecasting	295
B	The Styrenics Industry – Technology	296
B.1	Styrene	296
B.2	Polystyrene	299
B.3	Expandable Polystyrene	300
B.4	Acrylonitrile Butadiene Styrene (ABS)	303
B.5	Styrene Butadiene Rubber (SBR)	307

Figures

Figure 1	Styrenics Molecules	15
Figure 2	Main Chemical Uses of Styrene	15
Figure 3	Global Styrene Demand, 2017-e	18
Figure 4	Global GDP Growth vs. Styrene Consumption Growth	20
Figure 5	Global Styrene Consumption by Region	20



Figure 6	Global Styrene Capacity Share by Marketer in 2017-e.....	22
Figure 7	Global Styrene Capacity Additions/(Closures)	23
Figure 8	Global Styrene Capacity.....	23
Figure 9	Global Styrene Supply and Demand	24
Figure 10	Global Styrene Net Exports(Imports)	26
Figure 11	North America Styrene Consumption, 2017-e.....	29
Figure 12	North America Styrene Consumption by Country	29
Figure 13	Location of Styrene Plants in North America.....	32
Figure 14	North America Styrene Supply, Demand and Trade	34
Figure 15	United States Styrene Supply, Demand and Trade	35
Figure 16	South America Styrene Consumption, 2017-e.....	37
Figure 17	Location of Styrene Plants in South America	39
Figure 18	South America Styrene Supply, Demand and Trade	41
Figure 19	Western Europe Styrene Consumption, 2017-e	43
Figure 20	Location of Styrene Plants in Western Europe	45
Figure 21	Western Europe Styrene Supply,/Demand and Trade	47
Figure 22	Central Europe Styrene Consumption, 2017-e	49
Figure 23	Location of Styrene Plants in Central Europe	50
Figure 24	Central Europe Styrene Supply, Demand and Trade.....	52
Figure 25	Russia Styrene Consumption, 2017-e.....	53
Figure 26	Location of Styrene Plants in Russia.....	55
Figure 27	Russia Styrene Supply, Demand and Trade	56
Figure 28	Other Eastern Europe Styrene Supply, Demand and Trade	57
Figure 29	Total Eastern Europe Styrene Supply, Demand and Trade.....	58
Figure 30	Middle East Styrene Consumption, 2017-e.....	60
Figure 31	Location of Styrene Plants in the Middle East.....	62
Figure 32	Middle East Styrene Supply, Demand and Trade	63
Figure 33	Africa Styrene Consumption, 2017-e	65
Figure 34	Africa Styrene Supply, Demand and Trade	66
Figure 35	Asia Pacific Styrene Consumption, 2017-e	71
Figure 36	Location of Styrene Plants in China	78
Figure 37	Location of Styrene Plants in Japan and South Korea.....	79
Figure 38	Location of Styrene Plants in South-East Asia.....	79
Figure 39	Asia Pacific Styrene Supply, Demand and Trade	83
Figure 40	China Styrene Supply, Demand and Trade.....	84
Figure 41	Global Polystyrene (GPPS/HIPS) Demand, 2017-e	86
Figure 42	Global GDP Growth vs. Polystyrene (GPPS/HIPS) Consumption Growth	87
Figure 43	Global Polystyrene (GPPS/HIPS) Consumption by Region.....	87
Figure 44	Global Polystyrene (GPPS/HIPS) Capacity Share by Marketer in 2017-e	88
Figure 45	Global Polystyrene (GPPS/HIPS) Capacity Additions/(Closures)	89
Figure 46	Global Polystyrene (GPPS/HIPS) Capacity	89
Figure 47	Global Polystyrene (GPPS/HIPS) Supply and Demand.....	90
Figure 48	Global Polystyrene (GPPS/HIPS) Net Exports(Imports)	91
Figure 49	North America Polystyrene (GPPS/HIPS) Consumption, 2017-e	95



Figure 50	North America Polystyrene (GPPS/HIPS) Consumption by Country	95
Figure 51	Location of Polystyrene (GPPS/HIPS) Plants in North America	97
Figure 52	North America Polystyrene (GPPS/HIPS) Supply, Demand and Trade	98
Figure 53	United States Polystyrene (GPPS/HIPS) Supply, Demand and Trade	99
Figure 54	South America Polystyrene (GPPS/HIPS) Consumption, 2017-e.....	101
Figure 55	Location of Polystyrene GPPS/HIPS Plants in South America	103
Figure 56	South America Polystyrene GPPS/HIPS Supply, Demand and Trade	104
Figure 57	Western Europe Polystyrene (GPPS/HIPS) Consumption, 2017-e	106
Figure 58	Location of Polystyrene GPPS/HIPS Plants in Western Europe.....	108
Figure 59	Western Europe Polystyrene GPPS/HIPS Supply,/Demand and Trade	109
Figure 60	Central Europe Polystyrene (GPPS/HIPS) Consumption, 2017-e	111
Figure 61	Location of Polystyrene GPPS/HIPS Plants in Central Europe	112
Figure 62	Central Europe Polystyrene GPPS/HIPS Supply, Demand and Trade.....	113
Figure 63	Russia Polystyrene (GPPS/HIPS) Consumption, 2017-e	115
Figure 64	Other Eastern Europe Polystyrene (GPPS/HIPS) Consumption, 2017-e	116
Figure 65	Location of Polystyrene GPPS/HIPS Plants in Russia.....	117
Figure 66	Russia Polystyrene GPPS/HIPS Supply, Demand and Trade	118
Figure 67	Other Eastern Europe Polystyrene GPPS/HIPS Supply, Demand and Trade	119
Figure 68	Total Eastern Europe Polystyrene GPPS/HIPS Supply, Demand and Trade.....	120
Figure 69	Middle East Polystyrene (GPPS/HIPS) Consumption, 2017-e	122
Figure 70	Location of Polystyrene GPPS/HIPS Plants in the Middle East.....	124
Figure 71	Middle East Polystyrene GPPS/HIPS Supply, Demand and Trade	125
Figure 72	Africa Polystyrene (GPPS/HIPS) Consumption, 2017-e	127
Figure 73	Location of Polystyrene (GPPS/HIPS) Plants in Africa	128
Figure 74	Africa Polystyrene (GPPS/HIPS) Supply, Demand and Trade	129
Figure 75	Asia Pacific Polystyrene (GPPS/HIPS) Consumption, 2017-e.....	135
Figure 76	Location of Polystyrene (GPPS/HIPS) Plants in China.....	141
Figure 77	Location of Polystyrene (GPPS/HIPS) Plants in Japan and South Korea	142
Figure 78	Location of Polystyrene (GPPS/HIPS) Plants in South-East Asia	142
Figure 79	Asia Pacific Polystyrene (GPPS/HIPS) Supply, Demand and Trade	145
Figure 80	China Polystyrene (GPPS/HIPS) Supply, Demand and Trade	146
Figure 81	Global EPS Consumption, 2017-e	148
Figure 82	Global GDP Growth vs. EPS Consumption Growth	149
Figure 83	Global EPS Consumption by Region	149
Figure 84	Global EPS Capacity Share by Marketer in 2017-e	152
Figure 85	Global EPS Capacity Additions/(Closures)	152
Figure 86	Global EPS Capacity	152
Figure 87	Global EPS Supply and Demand	153
Figure 88	Global EPS Net Exports(Imports).....	154
Figure 89	North America EPS Consumption, 2017-e.....	156
Figure 90	North America Polystyrene (GPPS/HIPS) Consumption by Country	157
Figure 91	Location of Polystyrene (GPPS/HIPS) Plants in North America	158
Figure 92	North America EPS Supply, Demand and Trade	159
Figure 93	United States EPS Supply, Demand and Trade	160



Figure 94	South America EPS Consumption, 2017-e	162
Figure 95	Location of EPS Plants in South America	164
Figure 96	South America EPS Supply, Demand and Trade.....	165
Figure 97	Western Europe EPS Consumption, 2017-e.....	167
Figure 98	Location of EPS Plants in Western Europe	170
Figure 99	Western Europe EPS Supply, Demand and Trade	171
Figure 100	Central Europe EPS Consumption, 2017-e.....	173
Figure 101	Location of EPS Plants in Central Europe.....	174
Figure 102	Central Europe EPS Supply, Demand and Trade	175
Figure 103	Russia EPS Consumption, 2017-e.....	177
Figure 104	Other Eastern Europe Russia EPS Consumption, 2017-e.....	177
Figure 105	Location of EPS Plants in Russia	178
Figure 106	Russia EPS Supply, Demand and Trade	180
Figure 107	Other Eastern Europe EPS Supply, Demand and Trade	181
Figure 108	Total Eastern Europe EPS Supply, Demand and Trade	182
Figure 109	Middle East EPS Consumption, 2017-e	184
Figure 110	Location of EPS Plants in the Middle East	186
Figure 111	Middle East EPS Supply, Demand and Trade	187
Figure 112	Africa EPS Consumption, 2017-e.....	188
Figure 113	Africa EPS Supply, Demand and Trade	189
Figure 114	Asia EPS Consumption, 2017-e	195
Figure 115	Location of EPS Plants in China	200
Figure 116	Location of EPS Plants in Japan and South Korea	201
Figure 117	Location of EPS Plants in South-East Asia	201
Figure 118	Asia Pacific EPS Supply, Demand and Trade.....	204
Figure 119	China EPS Supply, Demand and Trade.....	205
Figure 120	Global SBR Consumption, 2017-e	210
Figure 121	Global GDP Growth vs. SBR Consumption Growth.....	211
Figure 122	Global SBR Consumption by Region	211
Figure 123	Global SBR Capacity Share by Marketer in 2017-e	213
Figure 124	Global SBR Capacity Additions/(Closures)	214
Figure 125	Global SBR Capacity	214
Figure 126	Global SBR Supply and Demand	216
Figure 127	Global SBR Net Exports(Imports)	217
Figure 128	North America SBR Consumption, 2017-e.....	219
Figure 129	Location of SBR Plants in North America.....	224
Figure 130	North America SBR Supply, Demand and Trade	226
Figure 131	United States SBR Supply, Demand and Trade	227
Figure 132	South America SBR Consumption, 2017-e	228
Figure 133	Location of SBR Plants in South America.....	232
Figure 134	South America SBR Supply, Demand and Trade	233
Figure 135	Western Europe SBR Consumption, 2017-e.....	235
Figure 136	Location of SBR Plants in Western Europe.....	240
Figure 137	Western Europe SBR Supply,/Demand and Trade	242



Figure 138	Central SBR Consumption, 2017-e	243
Figure 139	Location of SBR Plants in Central Europe	246
Figure 140	Central Europe SBR Supply, Demand and Trade.....	248
Figure 141	Russia SBR Consumption, 2017-e.....	249
Figure 142	Other Eastern Europe SBR Consumption, 2017-e	251
Figure 143	Location of SBR Plants in Russia.....	253
Figure 144	Russia SBR Supply, Demand and Trade	254
Figure 145	Other Eastern Europe SBR Supply, Demand and Trade	255
Figure 146	Total Eastern Europe SBR Supply, Demand and Trade	256
Figure 147	Middle East SBR Consumption, 2017-e.....	258
Figure 148	Location of SBR Plants in the Middle East.....	261
Figure 149	Middle East SBR Supply, Demand and Trade	263
Figure 150	Africa SBR Consumption, 2017-e	265
Figure 151	Location of SBR Plants in the Africa	267
Figure 152	Africa SBR Supply, Demand and Trade	268
Figure 153	Asia Pacific SBR Consumption, 2017-e	277
Figure 154	Location of SBR Plants in China	283
Figure 155	Location of SBR Plants in Japan and South Korea.....	284
Figure 156	Location of SBR Plants in South-East Asia.....	284
Figure 157	Location of SBR Plants in India	285
Figure 158	Asia Pacific SBR Supply, Demand and Trade	289
Figure 159	China SBR Supply, Demand and Trade.....	290
Figure 160	China SBR Supply, Demand and Trade.....	290
Figure 161	End-Use Consumption Drivers	293
Figure 162	Monomer Consumption Drivers	294
Figure 163	Trade Considerations	295
Figure 164	Lummus/UOP Classic Styrene Monomer Dehydrogenation	297
Figure 165	Total/Badger Styrene Process	298
Figure 166	High Impact Polystyrene CSTR Bulk Process.....	301
Figure 167	Expandable Polystyrene Batch Suspension Process	302
Figure 168	ABS Emulsion Process SAN Latex Production	304
Figure 169	ABS Emulsion Process ABS Graft Latex Production (Bimodal).....	305
Figure 170	ABS Emulsion Process Resin Recovery and Finishing	306
Figure 171	Styrene-Butadiene Rubber Cold Emulsion Process	308
Figure 172	Styrene-Butadiene Rubber (SBR) Solution Process	309

Tables

Table 1	Global Styrene Consumption by Derivative.....	18
Table 2	Table 3.3 Global Styrene Consumption by Region	20
Table 4	Global Styrene Supply and Demand	24
Table 5	North America Styrene Consumption by Derivative	29
Table 6	Styrene Capacity in North America	31
Table 7	North America Styrene Supply, Demand and Trade	34
Table 8	United States Styrene Supply, Demand and Trade	35



Table 9	South America Styrene Consumption by Derivative	37
Table 10	South America Styrene Consumption by Country.....	37
Table 11	Styrene Capacity in South America.....	38
Table 12	South America Styrene Supply, Demand and Trade	41
Table 13	Western Europe Styrene Consumption by Derivative	43
Table 14	Styrene Capacity in Western Europe	44
Table 15	Western Europe Styrene Supply, Demand and Trade.....	47
Table 16	Central Europe Styrene Consumption by Derivative.....	49
Table 17	Styrene Capacity in Central Europe	50
Table 18	Central Europe Styrene Supply, Demand and Trade.....	52
Table 19	Russia Styrene Consumption by Derivative	54
Table 20	Other Eastern Europe Styrene Consumption by Derivative.....	54
Table 21	Styrene Capacity in Russia	55
Table 22	Russia Styrene Supply, Demand and Trade	56
Table 23	Other Eastern Europe Styrene Supply, Demand and Trade.....	57
Table 24	Total Eastern Europe Styrene Supply, Demand and Trade.....	58
Table 25	Middle East Styrene Consumption by Derivative	60
Table 26	Middle East Styrene Consumption by Country.....	60
Table 27	Styrene Capacity in the Middle East	61
Table 28	Middle East Styrene Supply, Demand and Trade	63
Table 29	Africa Styrene Consumption by Derivative	65
Table 30	Africa Styrene Consumption by Country	65
Table 31	Africa Styrene Supply, Demand and Trade.....	66
Table 32	Asia Pacific Styrene Consumption by Derivative	71
Table 33	Asia Pacific Styrene Consumption by Country.....	72
Table 34	Asia Pacific Styrene Capacity.....	76
Table 35	Asia Pacific Styrene Supply, Demand and Trade	83
Table 36	China Styrene Supply, Demand and Trade.....	84
Table 37	Global Polystyrene (GPPS/HIPS) Consumption by End-Use	86
Table 38	Global Polystyrene (GPPS/HIPS) Consumption by Region.....	87
Table 39	Global Polystyrene (GPPS/HIPS) Supply and Demand.....	90
Table 40	North America Polystyrene (GPPS/HIPS) Consumption by End-Use	95
Table 41	Polystyrene (GPPS/HIPS) Capacity in North America	96
Table 42	North America Polystyrene (GPPS/HIPS) Supply, Demand and Trade	98
Table 43	United States Polystyrene (GPPS/HIPS) Supply, Demand and Trade.....	99
Table 44	South America Polystyrene GPPS/HIPS Consumption by End-Use	101
Table 45	South America Polystyrene GPPS/HIPS Consumption by Country.....	101
Table 46	Polystyrene GPPS/HIPS Capacity in South America.....	102
Table 47	South America Polystyrene GPPS/HIPS Supply, Demand and Trade	104
Table 48	Western Europe Polystyrene GPPS/HIPS Consumption by End-Use	106
Table 49	Polystyrene GPPS/HIPS Capacity in Western Europe	107
Table 50	Western Europe Polystyrene GPPS/HIPS Supply, Demand and Trade	109
Table 51	Central Europe Polystyrene GPPS/HIPS Consumption by End-Use	111
Table 52	Polystyrene GPPS/HIPS Capacity in Central Europe	112



Table 53	Central Europe Polystyrene GPPS/HIPS Supply, Demand and Trade.....	113
Table 54	Russia Polystyrene GPPS/HIPS Consumption by End-Use	115
Table 55	Other Eastern Europe Polystyrene GPPS/HIPS Consumption by End-Use.....	116
Table 56	Polystyrene GPPS/HIPS Capacity in Russia	117
Table 57	Russia Polystyrene GPPS/HIPS Supply, Demand and Trade	118
Table 58	Other Eastern Europe Polystyrene GPPS/HIPS Supply, Demand and Trade	119
Table 59	Total Eastern Europe Polystyrene GPPS/HIPS Supply, Demand and Trade	120
Table 60	Middle East Polystyrene GPPS/HIPS Consumption by End-Use	122
Table 61	Middle East Polystyrene GPPS/HIPS Consumption by Country.....	122
Table 62	Polystyrene GPPS/HIPS Capacity in the Middle East	123
Table 63	Middle East Polystyrene GPPS/HIPS Supply, Demand and Trade	125
Table 64	Africa Polystyrene GPPS/HIPS Consumption by End-Use	127
Table 65	Africa Polystyrene GPPS/HIPS Consumption by Country	127
Table 66	Polystyrene (GPPS/HIPS) Capacity in Africa	128
Table 67	Africa Polystyrene (GPPS/HIPS) Supply, Demand and Trade	129
Table 68	Asia Pacific Polystyrene (GPPS/HIPS) Consumption by End-Use	135
Table 69	Asia Pacific Polystyrene (GPPS/HIPS) Consumption by Country	136
Table 70	Asia Pacific Polystyrene (GPPS/HIPS) Capacity	139
Table 71	Asia Pacific Polystyrene (GPPS/HIPS) Supply, Demand and Trade	145
Table 72	China Polystyrene (GPPS/HIPS) Supply, Demand and Trade	146
Table 73	Global EPS Consumption by End-Use	148
Table 74	Global EPS Consumption by Region	150
Table 75	Global EPS Supply and Demand	153
Table 76	North America EPS Consumption by End-Use	156
Table 77	Polystyrene (GPPS/HIPS) Capacity in North America	158
Table 78	North America EPS Supply, Demand and Trade	159
Table 79	United States EPS Supply, Demand and Trade	160
Table 80	South America EPS Consumption by End-Use	162
Table 81	South America EPS Consumption by Country	162
Table 82	EPS Capacity in South America	163
Table 83	South America EPS Supply, Demand and Trade	165
Table 84	Western Europe EPS Consumption by End-Use	167
Table 85	EPS Capacity in Western Europe	169
Table 86	Western Europe EPS Supply, Demand and Trade	171
Table 87	Central Europe EPS Consumption by End-Use	173
Table 88	EPS Capacity in Central Europe	174
Table 89	Central Europe EPS Supply, Demand and Trade	175
Table 90	Russia EPS Consumption by End-Use	177
Table 91	Other Eastern Europe EPS Consumption by End-Use	178
Table 92	EPS Capacity in Russia	178
Table 93	Russia EPS Supply, Demand and Trade	180
Table 94	Other Eastern Europe EPS Supply, Demand and Trade	181
Table 95	Total Eastern Europe EPS Supply, Demand and Trade	182
Table 96	Middle East EPS Consumption by End-Use	184



Table 97	Middle East EPS Consumption by Country	184
Table 98	EPS Capacity in the Middle East.....	185
Table 99	Middle East EPS Supply, Demand and Trade	187
Table 100	Africa EPS Consumption by End-Use	188
Table 101	Africa EPS Consumption by Country	188
Table 102	Africa EPS Supply, Demand and Trade	189
Table 103	Asia Pacific EPS Consumption by End-Use.....	195
Table 104	Asia Pacific EPS Consumption by Country	195
Table 105	Asia Pacific EPS Capacity.....	198
Table 106	Asia Pacific EPS Supply, Demand and Trade.....	204
Table 107	China EPS Supply, Demand and Trade.....	205
Table 108	Global SBR Consumption by Type.....	210
Table 109	Global SBR Consumption by Region	212
Table 110	Global SBR Supply and Demand	216
Table 111	North America SBR Consumption by Type	219
Table 112	North American SBR Consumption by Country	219
Table 113	SBR Capacity in North America	224
Table 114	North America SBR Supply, Demand and Trade	226
Table 115	United States SBR Supply, Demand and Trade	227
Table 116	South America SBR Consumption by Type	229
Table 117	South America SBR Consumption by Country	229
Table 118	SBR Capacity in South America.....	231
Table 119	South America SBR Supply, Demand and Trade	233
Table 120	Western Europe SBR Consumption by Type	235
Table 121	EU Regulation on General Safety – Implementation of Tyre Aspects	237
Table 122	SBR Capacity in Western Europe	239
Table 123	Western Europe SBR Supply, Demand and Trade	242
Table 124	Central Europe SBR Consumption by Type	244
Table 125	SBR Capacity in Central Europe	246
Table 126	Central Europe SBR Supply, Demand and Trade	248
Table 127	Russia SBR Consumption by Derivative	250
Table 128	Other Eastern Europe SBR Consumption by Derivative	251
Table 129	SBR Capacity in Russia	252
Table 130	Russia SBR Supply, Demand and Trade	254
Table 131	Other Eastern Europe SBR Supply, Demand and Trade	255
Table 132	Total Eastern Europe SBR Supply, Demand and Trade	256
Table 133	Middle Eastern SBR Consumption by Type	258
Table 134	Middle Eastern SBR Consumption by Country	258
Table 135	SBR Capacity in the Middle East	261
Table 136	Middle East SBR Supply, Demand and Trade	263
Table 137	Africa SBR Consumption by Type	265
Table 138	Africa SBR Consumption by Country	265
Table 139	SBR Capacity in Africa	266
Table 140	Africa SBR Supply, Demand and Trade	268



Table 141	Asia Pacific SBR Consumption by Type	277
Table 142	Asia Pacific SBR Consumption by Country.....	277
Table 143	Asia Pacific SBR Capacity.....	281
Table 144	Asia Pacific SBR Supply, Demand and Trade	289