

MARKETS AND PROFITABILITY

Market Analytics: Styrenics - 2022

September 2022



This Report was prepared by NexantECA Energy & Chemicals Advisory ("NexantECA"). Except where specifically stated 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 and belief of NexantECA. The information has not been independently verified or otherwise examined to determine its accuracy, completeness or financial feasibility. Neither NexantECA, Subscriber nor any person acting on behalf of either shall have any liabilities for any loss or damage arising from or connected to the use of any information contained in this Report. NexantECA does not represent or warrant that any assumed conditions will come to pass.

The Report is for Subscriber's internal use only and shall be kept strictly confidential. The Report should not be otherwise reproduced, distributed or used without first obtaining prior written consent by NexantECA. Each Subscriber agrees to use reasonable effort to protect the confidential nature of the Report.

Copyright © by NexantECA (BVI) Ltd. 2022. All rights reserved.



Contents

1	Executive Summary	1
1.1	Styrenics Overview.....	1
1.2	Styrene Derivatives	9
2	The Styrenics Industry.....	22
2.1	Introduction.....	22
2.2	Uses of Styrenics	23
2.3	Sustainability	25
2.4	Market Coverage.....	28
3	Styrene	29
3.1	Global	29
3.1.1	Key Developments	29
3.1.2	Demand.....	29
3.1.3	Supply	34
3.1.4	Supply, Demand and Trade	37
3.2	North America	40
3.2.1	Key Developments	40
3.2.2	Demand.....	40
3.2.3	Supply	45
3.2.4	Supply, Demand and Trade	46
3.3	South America.....	50
3.3.1	Key Developments	50
3.3.2	Demand.....	50
3.3.3	Supply	52
3.3.4	Supply, Demand and Trade	53
3.4	Western Europe	55
3.4.1	Key Developments	55
3.4.2	Demand.....	55
3.4.3	Supply	58
3.4.4	Supply, Demand and Trade	60
3.5	Central Europe	62
3.5.1	Key Developments	62
3.5.2	Demand.....	62
3.5.3	Supply	65
3.5.4	Supply, Demand and Trade	65
3.6	Eastern Europe	67
3.6.1	Key Developments	67
3.6.2	Demand.....	67
3.6.2.1	Russia	67
3.6.2.2	Other Eastern Europe	70
3.6.3	Supply	71
3.6.3.1	Russia	71



3.6.3.2	Other Eastern Europe	71
3.6.4	Supply, Demand and Trade	72
3.6.4.1	Russia	72
3.6.4.2	Other Eastern Europe	74
3.7	Middle East	76
3.7.1	Key Developments	76
3.7.2	Demand	76
3.7.3	Supply	79
3.7.4	Supply, Demand and Trade	80
3.8	Africa	82
3.8.1	Key Developments	82
3.8.2	Demand	82
3.8.3	Supply	83
3.8.4	Supply, Demand and Trade	84
3.9	Asia Pacific	85
3.9.1	Key Developments	85
3.9.2	Demand	85
3.9.2.1	China	88
3.9.2.2	North-East Asia	89
3.9.2.3	South-East Asia	90
3.9.2.4	South Asia	90
3.9.3	Supply	92
3.9.3.1	China	92
3.9.3.2	North-East Asia	94
3.9.3.3	South-East Asia	94
3.9.3.4	South Asia	95
3.9.4	Supply, Demand and Trade	98
3.9.4.1	China	99
3.9.4.2	North-East Asia	100
3.9.4.3	South-East Asia	101
3.9.4.4	South Asia	102
4	Polystyrene (GPPS/HIPS)	105
4.1	Global	105
4.1.1	Key Developments	105
4.1.2	Demand	105
4.1.3	Supply	111
4.1.4	Supply, Demand and Trade	114
4.2	North America	116
4.2.1	Key Developments	116
4.2.2	Demand	116
4.2.3	Supply	120
4.2.4	Supply, Demand and Trade	121
4.3	South America	124
4.3.1	Key Developments	124



4.3.2	Demand	124
4.3.3	Supply	127
4.3.4	Supply, Demand and Trade	129
4.4	Western Europe	130
4.4.1	Key Developments	130
4.4.2	Demand	130
4.4.3	Supply	135
4.4.4	Supply, Demand and Trade	137
4.5	Central Europe	138
4.5.1	Key Developments	138
4.5.2	Demand	138
4.5.3	Supply	141
4.5.4	Supply, Demand and Trade	141
4.6	Eastern Europe	143
4.6.1	Key Developments	143
4.6.2	Demand	143
4.6.2.1	Russia	143
4.6.2.2	Other Eastern Europe	145
4.6.3	Supply	147
4.6.3.1	Russia	147
4.6.3.2	Other Eastern Europe	147
4.6.4	Supply, Demand and Trade	147
4.6.4.1	Russia	147
4.6.4.2	Other Eastern Europe	149
4.7	Middle East	151
4.7.1	Key Developments	151
4.7.2	Demand	151
4.7.3	Supply	154
4.7.4	Supply, Demand and Trade	155
4.8	Africa	157
4.8.1	Key Developments	157
4.8.2	Demand	157
4.8.3	Supply	159
4.8.4	Supply, Demand and Trade	160
4.9	Asia Pacific	161
4.9.1	Key Developments	161
4.9.2	Demand	161
4.9.2.1	China	162
4.9.2.2	North-East Asia	163
4.9.2.3	South-East Asia	165
4.9.2.4	South Asia	168
4.9.3	Supply	170
4.9.3.1	China	170
4.9.3.2	North-East Asia	170



4.9.3.3	South-East Asia	171
4.9.3.4	South Asia.....	171
4.9.4	Supply, Demand and Trade	175
4.9.4.1	China	175
4.9.4.2	North-East Asia.....	175
4.9.4.3	South-East Asia	176
4.9.4.4	South Asia.....	177
5	Expandable Polystyrene (EPS)	180
5.1	Global	180
5.1.1	Key Developments	180
5.1.2	Demand.....	180
5.1.3	Supply	183
5.1.4	Supply, Demand and Trade	186
5.2	North America	188
5.2.1	Key Developments	188
5.2.2	Demand.....	188
5.2.3	Supply	191
5.2.4	Supply, Demand and Trade	193
5.3	South America	195
5.3.1	Key Developments	195
5.3.2	Demand.....	195
5.3.3	Supply	198
5.3.4	Supply, Demand and Trade	199
5.4	Western Europe	201
5.4.1	Key Developments	201
5.4.2	Demand.....	201
5.4.3	Supply	206
5.4.4	Supply, Demand and Trade	208
5.5	Central Europe	210
5.5.1	Key Developments	210
5.5.2	Demand.....	210
5.5.3	Supply	212
5.5.4	Supply, Demand and Trade	212
5.6	Eastern Europe	214
5.6.1	Key Developments	214
5.6.2	Demand.....	214
5.6.2.1	Russia	214
5.6.2.2	Other Eastern Europe	216
5.6.3	Supply	218
5.6.3.1	Russia	218
5.6.3.2	Other Eastern Europe	218
5.6.4	Supply, Demand and Trade	218
5.6.4.1	Russia	218
5.6.4.2	Other Eastern Europe	219



5.7	Middle East.....	222
5.7.1	Key Developments	222
5.7.2	Demand.....	222
5.7.3	Supply	225
5.7.4	Supply, Demand and Trade	226
5.8	Africa	227
5.8.1	Key Developments	227
5.8.2	Demand.....	227
5.8.3	Supply	229
5.8.4	Supply, Demand and Trade	229
5.9	Asia Pacific.....	230
5.9.1	Key Developments	230
5.9.2	Demand.....	230
5.9.2.1	China	231
5.9.2.2	North-East Asia	232
5.9.2.3	South-East Asia	233
5.9.3	Supply	237
5.9.3.1	China	237
5.9.3.2	North-East Asia	237
5.9.3.3	South-East Asia	238
5.9.3.4	South Asia.....	238
5.9.4	Supply, Demand and Trade	241
5.9.4.1	China	241
5.9.4.2	North-East Asia	242
5.9.4.3	South-East Asia	242
5.9.4.4	South Asia.....	243
6	Acrylonitrile Butadiene Styrene (ABS).....	246
6.1	Global	246
6.1.1	Key Developments	246
6.1.2	Demand.....	246
6.1.3	Supply	250
6.1.4	Supply, Demand and Trade	252
6.2	North America	254
6.2.1	Demand.....	254
6.2.2	Supply	257
6.2.3	Supply, Demand and Trade	258
6.3	South America.....	261
6.3.1	Key Developments	261
6.3.2	Demand.....	261
6.3.3	Supply	262
6.3.4	Supply, Demand and Trade	263
6.4	Western Europe	264
6.4.1	Key Developments	264
6.4.2	Demand.....	264



6.4.3	Supply	268
6.4.4	Supply, Demand and Trade	270
6.5	Central Europe	272
6.5.1	Key Developments	272
6.5.2	Demand.....	272
6.5.3	Supply	275
6.5.4	Supply, Demand and Trade	275
6.6	Eastern Europe	277
6.6.1	Key Developments	277
6.6.2	Demand.....	277
6.6.2.1	Russia	277
6.6.2.2	Other Eastern Europe	279
6.6.3	Supply	281
6.6.3.1	Russia	281
6.6.3.2	Other Eastern Europe	281
6.6.4	Supply, Demand and Trade	282
6.6.4.1	Russia	282
6.6.4.2	Other Eastern Europe	283
6.7	Middle East.....	285
6.7.1	Key Developments	285
6.7.2	Demand.....	285
6.7.3	Supply	288
6.7.4	Supply, Demand and Trade	288
6.8	Africa	290
6.8.1	Key Developments	290
6.8.2	Demand.....	290
6.8.3	Supply	292
6.8.4	Supply, Demand and Trade	292
6.9	Asia Pacific.....	293
6.9.1	Key Developments	293
6.9.2	Demand.....	293
6.9.2.1	China	294
6.9.2.2	North-East Asia	296
6.9.2.3	South-East Asia	297
6.9.2.4	South Asia.....	300
6.9.3	Supply	301
6.9.3.1	China	302
6.9.3.2	North-East Asia	302
6.9.3.3	South-East Asia	303
6.9.3.4	South Asia.....	304
6.9.4	Supply, Demand and Trade	308
6.9.4.1	China	308
6.9.4.2	North-East Asia	309
6.9.4.3	South-East Asia	310



6.9.4.4	South Asia	311
6.9.4.5	Australasia	311
7	Styrene Butadiene Rubber (SBR)	314
7.1	Global	314
7.1.1	Key Developments	314
7.1.2	Demand	314
7.1.2.1	Tyre Production	315
7.1.2.2	Third Party Services and E-mobility	317
7.1.2.3	Vehicle Production	317
7.1.2.4	Natural Rubber	318
7.1.3	Supply	321
7.1.4	Supply, Demand and Trade	323
7.2	North America	326
7.2.1	Key Developments	326
7.2.2	Demand	326
7.2.2.1	Tyre Production	328
7.2.2.2	Vehicle Production	330
7.2.3	Supply	331
7.2.4	Supply, Demand and Trade	333
7.3	South America	336
7.3.1	Key Developments	336
7.3.2	Demand	336
7.3.2.1	Tyre Production	337
7.3.2.2	Vehicle Production	338
7.3.3	Supply	339
7.3.4	Supply, Demand and Trade	341
7.4	Western Europe	342
7.4.1	Key Developments	342
7.4.2	Demand	342
7.4.2.1	Tyre Production	344
7.4.2.2	EU Vehicle Emissions Regulations	348
7.4.2.3	Automotive Production	348
7.4.3	Supply	349
7.4.4	Supply, Demand and Trade	350
7.5	Central Europe	352
7.5.1	Key Developments	352
7.5.2	Demand	352
7.5.2.1	Tyre Production	354
7.5.2.2	Automotive Production	355
7.5.3	Supply	356
7.5.4	Supply, Demand and Trade	357
7.6	Eastern Europe	359
7.6.1	Demand	359
7.6.1.1	Russia	359



7.6.1.2	Other Eastern Europe	363
7.6.2	Supply	364
7.6.2.1	Russia	364
7.6.2.2	Other Eastern Europe	365
7.6.3	Supply, Demand and Trade	365
7.6.3.1	Russia	365
7.6.3.2	Other Eastern Europe	368
7.7	Middle East.....	370
7.7.1	Key Developments	370
7.7.2	Demand.....	370
7.7.2.1	Tyre Production.....	373
7.7.2.2	Automotive Production.....	373
7.7.3	Supply	374
7.7.4	Supply, Demand and Trade	375
7.8	Africa	377
7.8.1	Key Developments	377
7.8.2	Demand.....	377
7.8.3	Supply	380
7.8.4	Supply, Demand and Trade	380
7.9	Asia Pacific.....	382
7.9.1	Key Developments	382
7.9.2	Demand.....	382
7.9.2.1	Tyre and Automotive Production.....	383
7.9.2.2	China.....	384
7.9.2.3	North-East Asia	386
7.9.2.4	South-East Asia	388
7.9.2.5	South Asia.....	391
7.9.2.6	Australasia	392
7.9.3	Supply	393
7.9.3.1	North-East Asia	393
7.9.3.2	South-East Asia	394
7.9.3.3	South Asia.....	395
7.9.4	Supply, Demand and Trade	399
7.9.4.1	China	399
7.9.4.2	North-East Asia	400
7.9.4.3	South-East Asia	401
7.9.4.4	South Asia.....	402
7.9.4.5	Australasia	402
8	Other Styrene Derivatives	405
8.1	Global	405
8.1.1	Styrene Butadiene Latex (SB Latex).....	405
8.1.2	Unsaturated polyester resins (UPRs)	406
8.1.3	Others.....	406
8.2	North America	407



8.2.1	Styrene Butadiene Latex.....	407
8.2.2	Unsaturated Polyester Resins.....	408
8.2.3	Others.....	408
8.3	South America	410
8.3.1	Styrene Butadiene Latex.....	410
8.3.2	Others.....	410
8.4	Western Europe	411
8.4.1	Styrene Butadiene Latex.....	411
8.4.2	Unsaturated Polyester Resins.....	412
8.4.3	Others.....	413
8.5	Central Europe	416
8.5.1	Styrene Butadiene Latex.....	416
8.5.2	Unsaturated Polyester Resins.....	416
8.5.3	Others.....	417
8.6	Eastern Europe	417
8.6.1	Styrene Butadiene Latex.....	417
8.6.1.1	Russia	417
8.6.1.2	Other Eastern Europe	418
8.6.2	Unsaturated Polyester Resins.....	418
8.6.3	Others.....	418
8.7	Middle East.....	419
8.7.1	Styrene Butadiene Latex.....	419
8.7.2	Unsaturated Polyester Resins.....	419
8.7.3	Others.....	420
8.8	Africa	420
8.8.1	Styrene Butadiene Latex.....	420
8.8.2	Others.....	420
8.9	Asia Pacific.....	421
8.9.1	Styrene Butadiene Latex.....	421
8.9.2	Others.....	421

Appendices

A	Methodology	428
A.1	Market Dynamics Forecasting Methodology	428
A.1.1	Capacity Availability and Forecasting	428
A.1.2	End-Use Consumption Forecasting	428
A.1.2.1	End-Use Sector Growth	429
A.1.2.2	Penetration (New Application Growth)	429
A.1.2.3	Short-term Influences.....	429
A.1.3	Monomer Consumption Forecasting	429
A.1.4	Production and Trade Forecasting	430
B	The Styrenics Industry – Technology	431
B.1	Styrene	431
B.2	Polystyrene.....	433



B.3	Expandable Polystyrene	434
B.4	Acrylonitrile Butadiene Styrene (ABS)	437
B.5	Styrene Butadiene Rubber (SBR)	441

Figures

Figure 1	Styrenics Molecules.....	24
Figure 2	Main Chemical Uses of Styrene	24
Figure 3	Global Styrene Demand, 2021-e	31
Figure 4	Global GDP Growth vs. Styrene Consumption Growth.....	33
Figure 5	Global Styrene Consumption by Region	33
Figure 6	Global Styrene Capacity Share by Marketer in 2021-e	36
Figure 7	Global Styrene Capacity Additions/(Closures)	36
Figure 8	Global Styrene Capacity	36
Figure 9	Global Styrene Supply and Demand	37
Figure 10	Global Styrene Net Exports(Imports)	39
Figure 11	North America Styrene Consumption, 2021-e.....	44
Figure 12	North America Styrene Supply, Demand and Trade	48
Figure 13	United States Styrene Supply, Demand and Trade	49
Figure 14	South America Styrene Consumption, 2021-e	51
Figure 15	South America Styrene Supply, Demand and Trade	54
Figure 16	Western Europe Styrene Consumption, 2021-e	58
Figure 17	Western Europe Styrene Supply, Demand and Trade	61
Figure 18	Central Europe Styrene Consumption, 2021-e	64
Figure 19	Central Europe Styrene Supply, Demand and Trade.....	66
Figure 20	Russia Styrene Consumption, 2021-e.....	69
Figure 21	Other Eastern Europe Styrene Consumption, 2021-e	70
Figure 22	Russia Styrene Supply, Demand and Trade	73
Figure 23	Other Eastern Europe Styrene Supply, Demand and Trade	74
Figure 24	Total Eastern Europe Styrene Supply, Demand and Trade	75
Figure 25	Middle East Styrene Consumption, 2021-e.....	78
Figure 26	Middle East Styrene Supply, Demand and Trade	81
Figure 27	Africa Styrene Consumption, 2021-e	83
Figure 28	Africa Styrene Supply, Demand and Trade	84
Figure 29	Asia Pacific Styrene Consumption, 2021-e	91
Figure 30	Asia Pacific Styrene Supply, Demand and Trade	103
Figure 31	China Styrene Supply, Demand and Trade.....	104
Figure 32	Global Polystyrene (GPPS/HIPS) Demand, 2021-e	109
Figure 33	Global GDP Growth vs. Polystyrene (GPPS/HIPS) Consumption Growth	109
Figure 34	Global Polystyrene (GPPS/HIPS) Consumption by Region.....	110
Figure 35	Global Polystyrene (GPPS/HIPS) Capacity Share by Marketer in 2021-e	113
Figure 36	Global Polystyrene (GPPS/HIPS)Capacity Additions/(Closures)	113
Figure 37	Global Polystyrene (GPPS/HIPS) Capacity	113
Figure 38	Global Polystyrene (GPPS/HIPS) Supply and Demand.....	114
Figure 39	Global Polystyrene (GPPS/HIPS) Net Exports(Imports)	115



Figure 40	North America Polystyrene (GPPS/HIPS) Consumption, 2021-e	120
Figure 41	North America Polystyrene (GPPS/HIPS) Supply, Demand and Trade	122
Figure 42	United States Polystyrene (GPPS/HIPS) Supply, Demand and Trade	123
Figure 43	South America Polystyrene (GPPS/HIPS) Consumption, 2021-e.....	126
Figure 44	South America Polystyrene GPPS/HIPS Supply, Demand and Trade	129
Figure 45	Western Europe Polystyrene (GPPS/HIPS) Consumption, 2021-e	135
Figure 46	Western Europe Polystyrene GPPS/HIPS Supply, Demand and Trade	137
Figure 47	Central Europe Polystyrene (GPPS/HIPS) Consumption, 2021-e	140
Figure 48	Central Europe Polystyrene GPPS/HIPS Supply, Demand and Trade.....	142
Figure 49	Russia Polystyrene (GPPS/HIPS) Consumption, 2021-e	145
Figure 50	Other Eastern Europe Polystyrene (GPPS/HIPS) Consumption, 2021-e	146
Figure 51	Russia Polystyrene GPPS/HIPS Supply, Demand and Trade	148
Figure 52	Other Eastern Europe Polystyrene GPPS/HIPS Supply, Demand and Trade.....	149
Figure 53	Total Eastern Europe Polystyrene GPPS/HIPS Supply, Demand and Trade	150
Figure 54	Middle East Polystyrene (GPPS/HIPS) Consumption, 2021-e	153
Figure 55	Middle East Polystyrene GPPS/HIPS Supply, Demand and Trade	156
Figure 56	Africa Polystyrene (GPPS/HIPS) Consumption, 2021-e	159
Figure 57	Africa Polystyrene (GPPS/HIPS) Supply, Demand and Trade	160
Figure 58	Asia Pacific Polystyrene (GPPS/HIPS) Consumption, 2021-e.....	169
Figure 59	Asia Pacific Polystyrene (GPPS/HIPS) Supply, Demand and Trade	178
Figure 60	China Polystyrene (GPPS/HIPS) Supply, Demand and Trade	179
Figure 61	Global EPS Consumption, 2021-e	182
Figure 62	Global GDP Growth vs. EPS Consumption Growth	182
Figure 63	Global EPS Consumption by Region	183
Figure 64	Global EPS Capacity Share by Marketer in 2021-e	185
Figure 65	Global EPS Capacity Additions/(Closures)	185
Figure 66	Global EPS Capacity	185
Figure 67	Global EPS Supply and Demand	186
Figure 68	Global EPS Net Exports(Imports).....	187
Figure 69	North America EPS Consumption, 2021-e.....	190
Figure 70	North America EPS Supply, Demand and Trade	193
Figure 71	United States EPS Supply, Demand and Trade	194
Figure 72	South America EPS Consumption, 2021-e	197
Figure 73	South America EPS Supply, Demand and Trade.....	200
Figure 74	Western Europe EPS Consumption, 2021-e.....	205
Figure 75	Western Europe EPS Supply, Demand and Trade	209
Figure 76	Central Europe EPS Consumption, 2021-e.....	211
Figure 77	Central Europe EPS Supply, Demand and Trade	213
Figure 78	Russia EPS Consumption, 2021-e.....	215
Figure 79	Other Eastern Europe Russia EPS Consumption, 2021-e.....	217
Figure 80	Russia EPS Supply, Demand and Trade	219
Figure 81	Other Eastern Europe EPS Supply, Demand and Trade	220
Figure 82	Total Eastern Europe EPS Supply, Demand and Trade	221
Figure 83	Middle East EPS Consumption, 2021-e	224



Figure 84	Middle East EPS Supply, Demand and Trade	226
Figure 85	Africa EPS Consumption, 2021-e.....	228
Figure 86	Africa EPS Supply, Demand and Trade	229
Figure 87	Asia EPS Consumption, 2021-e	236
Figure 88	Asia Pacific EPS Supply, Demand and Trade.....	244
Figure 89	China EPS Supply, Demand and Trade.....	245
Figure 90	Global ABS Consumption, 2021-e	248
Figure 91	Global GDP Growth vs. ABS Consumption Growth	249
Figure 92	Global ABS Consumption by Region	249
Figure 93	Global ABS Capacity Share by Marketer in 2021-e	251
Figure 94	Global ABS Capacity Additions/(Closures)	251
Figure 95	Global ABS Capacity	251
Figure 96	Global ABS Supply and Demand	252
Figure 97	Global ABS Net Exports(Imports).....	253
Figure 98	North America ABS Consumption, 2021-e.....	256
Figure 99	North America ABS Supply, Demand and Trade	259
Figure 100	United States ABS Supply, Demand and Trade	260
Figure 101	South America ABS Consumption, 2021-e	262
Figure 102	South America ABS Supply, Demand and Trade.....	263
Figure 103	Western Europe America ABS Consumption, 2021-e	268
Figure 104	Western Europe ABS Supply, Demand and Trade	271
Figure 105	Central Europe ABS Consumption, 2021-e.....	274
Figure 106	Central Europe ABS Supply, Demand and Trade	276
Figure 107	Russia ABS Consumption, 2021-e	279
Figure 108	Other Eastern Europe ABS Consumption, 2021-e.....	280
Figure 109	Russia ABS Supply, Demand and Trade	282
Figure 110	Other Eastern Europe ABS Supply, Demand and Trade	283
Figure 111	Total Eastern Europe ABS Supply, Demand and Trade	284
Figure 112	Middle East ABS Consumption, 2021-e	287
Figure 113	Middle East ABS Supply, Demand and Trade	289
Figure 114	Africa ABS Consumption, 2021-e.....	291
Figure 115	Africa ABS Supply, Demand and Trade	292
Figure 116	Asia Pacific ABS Consumption, 2021-e	301
Figure 117	Asia Pacific ABS Supply, Demand and Trade.....	312
Figure 118	China ABS Supply, Demand and Trade.....	313
Figure 119	Global SBR Consumption, 2021-e	318
Figure 120	Global GDP Growth vs. SBR Consumption Growth	320
Figure 121	Global SBR Consumption by Region	320
Figure 122	Global SBR Capacity Share by Marketer in 2021-e	322
Figure 123	Global SBR Capacity Additions/(Closures)	322
Figure 124	Global SBR Capacity	322
Figure 125	Global SBR Supply and Demand	324
Figure 126	Global SBR Net Exports(Imports)	325
Figure 127	North America SBR Consumption, 2021-e.....	327



Figure 128	North America SBR Supply, Demand and Trade	334
Figure 129	United States SBR Supply, Demand and Trade	335
Figure 130	South America SBR Consumption, 2021-e	337
Figure 131	South America SBR Supply, Demand and Trade	341
Figure 132	Western Europe SBR Consumption, 2021-e.....	343
Figure 133	Western Europe SBR Supply, Demand and Trade	351
Figure 134	Central Europe SBR Consumption, 2021-e	353
Figure 135	Central Europe SBR Supply, Demand and Trade.....	358
Figure 136	Russia SBR Consumption, 2021-e.....	360
Figure 137	Other Eastern Europe SBR Consumption, 2021-e	363
Figure 138	Russia SBR Supply, Demand and Trade	367
Figure 139	Other Eastern Europe SBR Supply, Demand and Trade	368
Figure 140	Total Eastern Europe SBR Supply, Demand and Trade	369
Figure 141	Middle East SBR Consumption, 2021-e.....	372
Figure 142	Middle East SBR Supply, Demand and Trade	376
Figure 143	Africa SBR Consumption, 2021-e	378
Figure 144	Africa SBR Supply, Demand and Trade.....	381
Figure 145	Asia Pacific SBR Consumption, 2021-e	392
Figure 146	Asia Pacific SBR Supply, Demand and Trade	403
Figure 147	China SBR Supply, Demand and Trade.....	404
Figure 148	End-Use Consumption Drivers	428
Figure 149	Monomer Consumptrion Drivers	430
Figure 150	Trade Considerations	430
Figure 151	Lummus/UOP Classic Styrene Monomer Dehydrogenation	432
Figure 152	High Impact Polystyrene CSTR Bulk Process.....	435
Figure 153	Expandable Polystyrene Batch Suspension Process	436
Figure 154	ABS Emulsion Process SAN Latex Production	438
Figure 155	ABS Emulsion Process ABS Graft Latex Production (Bimodal).....	439
Figure 156	ABS Emulsion Process Resin Recovery and Finishing	440
Figure 157	Styrene-Butadiene Rubber Cold Emulsion Process	442
Figure 158	Styrene-Butadiene Rubber (SBR) Solution Process	443

Tables

Table 1	Global Styrene Consumption by Derivative.....	31
Table 2	Global Styrene Consumption by Region	33
Table 3	Global Styrene Supply and Demand	37
Table 4	North America Styrene Consumption by Derivative	44
Table 5	North America Styrene Consumption by Country	44
Table 6	Styrene Capacity in North America	46
Table 7	North America Styrene Supply, Demand and Trade	48
Table 8	United States Styrene Supply, Demand and Trade	49
Table 9	South America Styrene Consumption by Derivative	51
Table 10	South America Styrene Consumption by Country.....	52
Table 11	Styrene Capacity in South America	52



Table 12	South America Styrene Supply, Demand and Trade	54
Table 13	Western Europe Styrene Consumption by Derivative	58
Table 14	Styrene Capacity in Western Europe	59
Table 15	Western Europe Styrene Supply, Demand and Trade	61
Table 16	Central Europe Styrene Consumption by Derivative	64
Table 17	Styrene Capacity in Central Europe	65
Table 18	Central Europe Styrene Supply, Demand and Trade	66
Table 19	Russia Styrene Consumption by Derivative	69
Table 20	Other Eastern Europe Styrene Consumption by Derivative	70
Table 21	Styrene Capacity in Russia	71
Table 22	Russia Styrene Supply, Demand and Trade	73
Table 23	Other Eastern Europe Styrene Supply, Demand and Trade	74
Table 24	Total Eastern Europe Styrene Supply, Demand and Trade	75
Table 25	Middle East Styrene Consumption by Derivative	78
Table 26	Middle East Styrene Consumption by Country	78
Table 27	Styrene Capacity in the Middle East	79
Table 28	Middle East Styrene Supply, Demand and Trade	81
Table 29	Africa Styrene Consumption by Derivative	83
Table 30	Africa Styrene Consumption by Country	83
Table 31	Africa Styrene Supply, Demand and Trade	84
Table 32	Asia Pacific Styrene Consumption by Derivative	91
Table 33	Asia Pacific Styrene Consumption by Country	91
Table 34	China Styrene Capacity	96
Table 35	East Asia Styrene Capacity	97
Table 36	South -East Asia Styrene Capacity	98
Table 37	Asia Pacific Styrene Supply, Demand and Trade	103
Table 38	China Styrene Supply, Demand and Trade	104
Table 39	Global Polystyrene (GPPS/HIPS) Consumption by End-Use	109
Table 40	Global Polystyrene (GPPS/HIPS) Consumption by Region	110
Table 41	Global Polystyrene (GPPS/HIPS) Supply and Demand	114
Table 42	North America Polystyrene (GPPS/HIPS) Consumption by End-Use	120
Table 43	North America Polystyrene (GPPS/HIPS) Consumption by Country	120
Table 44	Polystyrene (GPPS/HIPS) Capacity in North America	121
Table 45	North America Polystyrene (GPPS/HIPS) Supply, Demand and Trade	122
Table 46	United States Polystyrene (GPPS/HIPS) Supply, Demand and Trade	123
Table 47	South America Polystyrene GPPS/HIPS Consumption by End-Use	126
Table 48	South America Polystyrene GPPS/HIPS Consumption by Country	126
Table 49	Polystyrene GPPS/HIPS Capacity in South America	128
Table 50	South America Polystyrene GPPS/HIPS Supply, Demand and Trade	129
Table 51	Western Europe Polystyrene GPPS/HIPS Consumption by End-Use	135
Table 52	Polystyrene GPPS/HIPS Capacity in Western Europe	136
Table 53	Western Europe Polystyrene GPPS/HIPS Supply, Demand and Trade	137
Table 54	Central Europe Polystyrene GPPS/HIPS Consumption by End-Use	140
Table 55	Polystyrene GPPS/HIPS Capacity in Central Europe	141



Table 56	Central Europe Polystyrene GPPS/HIPS Supply, Demand and Trade.....	142
Table 57	Russia Polystyrene GPPS/HIPS Consumption by End-Use	145
Table 58	Other Eastern Europe Polystyrene GPPS/HIPS Consumption by End-Use.....	146
Table 59	Polystyrene GPPS/HIPS Capacity in Russia	147
Table 60	Russia Polystyrene GPPS/HIPS Supply, Demand and Trade	148
Table 61	Other Eastern Europe Polystyrene GPPS/HIPS Supply, Demand and Trade	149
Table 62	Total Eastern Europe Polystyrene GPPS/HIPS Supply, Demand and Trade	150
Table 63	Middle East Polystyrene GPPS/HIPS Consumption by End-Use	153
Table 64	Middle East Polystyrene GPPS/HIPS Consumption by Country.....	153
Table 65	Polystyrene GPPS/HIPS Capacity in the Middle East	154
Table 66	Middle East Polystyrene GPPS/HIPS Supply, Demand and Trade	156
Table 67	Africa Polystyrene GPPS/HIPS Consumption by End-Use	159
Table 68	Africa Polystyrene GPPS/HIPS Consumption by Country	159
Table 69	Polystyrene (GPPS/HIPS) Capacity in Africa	160
Table 70	Africa Polystyrene (GPPS/HIPS) Supply, Demand and Trade	160
Table 71	Asia Pacific Polystyrene (GPPS/HIPS) Consumption by End-Use	169
Table 72	Asia Pacific Polystyrene (GPPS/HIPS) Consumption by Country	169
Table 73	China Polystyrene (GPPS/HIPS) Capacity	172
Table 74	East Asia Polystyrene (GPPS/HIPS) Capacity.....	173
Table 75	South-East Asia Polystyrene (GPPS/HIPS) Capacity	174
Table 76	South Asia Polystyrene (GPPS/HIPS) Capacity	174
Table 77	Asia Pacific Polystyrene (GPPS/HIPS) Supply, Demand and Trade	178
Table 78	China Polystyrene (GPPS/HIPS) Supply, Demand and Trade	179
Table 79	Global EPS Consumption by End-Use.....	182
Table 80	Global EPS Consumption by Region	183
Table 81	Global EPS Supply and Demand	186
Table 82	North America EPS Consumption by End-Use	190
Table 83	North America Polystyrene (GPPS/HIPS) Consumption by Country	190
Table 84	Polystyrene (GPPS/HIPS) Capacity in North America	192
Table 85	North America EPS Supply, Demand and Trade	193
Table 86	United States EPS Supply, Demand and Trade	194
Table 87	South America EPS Consumption by End-Use	197
Table 88	South America EPS Consumption by Country	197
Table 89	EPS Capacity in South America	198
Table 90	South America EPS Supply, Demand and Trade.....	200
Table 91	Western Europe EPS Consumption by End-Use	205
Table 92	EPS Capacity in Western Europe	207
Table 93	Western Europe EPS Supply, Demand and Trade	209
Table 94	Central Europe EPS Consumption by End-Use	211
Table 95	EPS Capacity in Central Europe	212
Table 96	Central Europe EPS Supply, Demand and Trade.....	213
Table 97	Russia EPS Consumption by End-Use	215
Table 98	Other Eastern Europe EPS Consumption by End-Use	217
Table 99	EPS Capacity in Russia.....	218



Table 100	Russia EPS Supply, Demand and Trade	219
Table 101	Other Eastern Europe EPS Supply, Demand and Trade	220
Table 102	Total Eastern Europe EPS Supply, Demand and Trade	221
Table 103	Middle East EPS Consumption by End-Use	224
Table 104	Middle East EPS Consumption by Country	224
Table 105	EPS Capacity in the Middle East.....	225
Table 106	Middle East EPS Supply, Demand and Trade	226
Table 107	Africa EPS Consumption by End-Use	228
Table 108	Africa EPS Consumption by Country	228
Table 109	Africa EPS Supply, Demand and Trade	229
Table 110	Asia Pacific EPS Consumption by End-Use.....	236
Table 111	Asia Pacific EPS Consumption by Country	236
Table 112	China EPS Capacity	239
Table 113	East Asia EPS Capacity	240
Table 114	South-East Asia EPS Capacity	240
Table 115	South Asia EPS Capacity	241
Table 116	Asia Pacific EPS Supply, Demand and Trade.....	244
Table 117	China EPS Supply, Demand and Trade.....	245
Table 118	Global ABS Consumption by End-Use.....	248
Table 119	Global ABS Consumption by Region	249
Table 120	Global ABS Supply and Demand	252
Table 121	North America ABS Consumption by End-Use	256
Table 122	North America ABS Consumption by Country.....	256
Table 123	ABS Capacity in North America	257
Table 124	North America ABS Supply, Demand and Trade	259
Table 125	United States ABS Supply, Demand and Trade	260
Table 126	South America ABS Consumption by End-Use	262
Table 127	South America ABS Consumption by Country	262
Table 128	South America ABS Supply, Demand and Trade.....	263
Table 129	Western Europe ABS Consumption by End-Use	268
Table 130	ABS Capacity in Western Europe	269
Table 131	Western Europe ABS Supply, Demand and Trade	271
Table 132	Central Europe ABS Consumption by End-Use	275
Table 133	Central Europe ABS Supply, Demand and Trade	276
Table 134	Russia ABS Consumption by End-Use	279
Table 135	Other Eastern Europe ABS Consumption by End-Use	280
Table 136	ABS Capacity in Russia.....	281
Table 137	Russia ABS Supply, Demand and Trade	282
Table 138	Other Eastern Europe ABS Supply, Demand and Trade	283
Table 139	Total Eastern Europe ABS Supply, Demand and Trade	284
Table 140	Middle Eastern ABS Consumption by End-Use	287
Table 141	Middle Eastern ABS Consumption by Country.....	287
Table 142	ABS Capacity in the Middle East.....	288
Table 143	Middle East ABS Supply, Demand and Trade	289



Table 144	Africa ABS Consumption by End-Use	291
Table 145	Africa ABS Consumption by Country	292
Table 146	Africa ABS Supply, Demand and Trade	292
Table 147	Asia Pacific ABS Consumption by End-Use.....	301
Table 148	Asia Pacific ABS Consumption by Country	301
Table 149	China ABS Capacity	305
Table 150	East Asia ABS Capacity	306
Table 151	South-East Asia ABS Capacity	307
Table 152	South Asia ABS Capacity	307
Table 153	Asia Pacific ABS Supply, Demand and Trade.....	312
Table 154	China ABS Supply, Demand and Trade	313
Table 155	Global SBR Consumption by Type.....	318
Table 156	Global SBR Consumption by Region	320
Table 157	Global SBR Supply and Demand	324
Table 158	North America SBR Consumption by Type	327
Table 159	North American SBR Consumption by Country	328
Table 160	SBR Capacity in North America	332
Table 161	North America SBR Supply, Demand and Trade	334
Table 162	United States SBR Supply, Demand and Trade	335
Table 163	South America SBR Consumption by Type	337
Table 164	South America SBR Consumption by Country.....	337
Table 165	SBR Capacity in South America.....	340
Table 166	South America SBR Supply, Demand and Trade	341
Table 167	Western Europe SBR Consumption by Type	343
Table 168	EU Regulation on General Safety – Implementation of Tyre Aspects	347
Table 169	SBR Capacity in Western Europe	350
Table 170	Western Europe SBR Supply, Demand and Trade	351
Table 171	Central Europe SBR Consumption by Type	353
Table 172	SBR Capacity in Central Europe	356
Table 173	Central Europe SBR Supply, Demand and Trade.....	358
Table 174	Russia SBR Consumption by Derivative	361
Table 175	Other Eastern Europe SBR Consumption by Derivative	363
Table 176	SBR Capacity in Russia	365
Table 177	Russia SBR Supply, Demand and Trade	367
Table 178	Other Eastern Europe SBR Supply, Demand and Trade	368
Table 179	Total Eastern Europe SBR Supply, Demand and Trade	369
Table 180	Middle Eastern SBR Consumption by Type	372
Table 181	Middle Eastern SBR Consumption by Country	372
Table 182	SBR Capacity in the Middle East	374
Table 183	Middle East SBR Supply, Demand and Trade	376
Table 184	Africa SBR Consumption by Type	378
Table 185	Africa SBR Consumption by Country	378
Table 186	Africa SBR Supply, Demand and Trade	381
Table 187	Asia Pacific SBR Consumption by Type	392



Table 188	Asia Pacific SBR Consumption by Country	392
Table 189	China SBR Capacity	396
Table 190	East Asia SBR Capacity	397
Table 191	South Asia SBR Capacity	398
Table 192	South Asia SBR Capacity	398
Table 193	Asia Pacific SBR Supply, Demand and Trade	403
Table 194	China SBR Supply, Demand and Trade	404
Table 195	SB Latex Capacity in North America	409
Table 196	SB Latex Capacity in South America	410
Table 197	SB Latex Capacity in Western Europe	415
Table 198	SB Latex Capacity in Central Europe	417
Table 199	SB Latex Capacity in Russia	417
Table 200	SB Latex Capacity in Other Eastern Europe	418
Table 201	SB Latex Capacity in the Middle East	420
Table 202	SB Latex Capacity in China	424
Table 203	SB Latex Capacity in East Asia	425
Table 204	SB Latex Capacity in South-East Asia	425
Table 205	SB Latex Capacity in South Asia	426