

## List of Figures

Figure 1	North American Capacity Additions by Web-Forming Process .....	2
Figure 2	2022 North American Nonwoven Material Intra-Region Trade Flow with Import, Export and Net Tonnage Difference, Tonnes.....	5
Figure 3	2022 North American Nonwoven Material Trade Flow by Region with Import, Export and Net Tonnage Difference, Tonnes.....	6
Figure 4	Twin Beam Meltblown Production Line .....	10
Figure 5	Reicofil® Five-Beam (SSMMS) Spunmelt Line .....	11
Figure 6	Carding Production Line.....	12
Figure 7	Dual Needle Loom .....	13
Figure 8	Single Needle Loom .....	13
Figure 9	Needle Loom Production Line .....	13
Figure 10	Capacity by Process, 2022, Tonnes .....	14
Figure 11	Capacity by Region, 2022, Tonnes .....	14
Figure 12	North American Capacity by Process, 1990 to 2022, Tonnes .....	16
Figure 13	North American Capacity by Process 2017 to 2022, Average Annual Growth Rates, Tonnes .....	19
Figure 14	North American Capacity by Drylaid Bonding Process, 2017 to 2022, Average Annual Growth Rates, Tonnes .....	20
Figure 15	North American Capacity by Spunlaid Process, 2017 to 2022, Average Annual Growth Rates, Tonnes .....	21
Figure 16	North American Capacity Share by Detailed Process, 2022, Tonnes .....	22
Figure 17	North American Capacity by Detailed Process, 2012 to 2022, 10-Year Compound Annual Growth Rates, Tonnes .....	24
Figure 18	North American Capacity, Production, and Operating Rates: 2005, 2010, 2015 and 2022, Tonnes .....	30
Figure 19	North American Capacity, Production, and Operating Rates by Process: 2005, 2010, 2015 and 2022, Tonnes .....	32
Figure 20	North American Capacity, Production, and Operating Rates, 2017 to 2022, Tonnes ...	34

Figure 21	North American Capacity, Production, and Operating Rates by Process, 2019 to 2022, Tonnes .....	36
Figure 22	North American Production Share by End-Use Market 2022, Tonnes .....	37
Figure 23	Share of Resin and Staple Fiber Used in North American Production, 2022, Tonnes ..	38
Figure 24	Share of Synthetic Polymers Used in North American Production, 2022, Tonnes .....	38
Figure 25	North American Spunlaid Resin Consumption, 2022, Tonnes .....	40
Figure 26	North American Staple Fiber Consumption, 2022, Tonnes .....	42
Figure 27	U.S. Nonwoven Material Imports and Exports, 1989 to 2022, Tonnes.....	48
Figure 28	U.S. Nonwoven Material Imports and Exports, 1996 to 2022, Dollars .....	49
Figure 29	United States – Mexico Nonwoven Material Trade, 2012 to 2022, Tonnes .....	52
Figure 30	United States – Mexico Nonwoven Material Trade, 2012 to 2022, Dollars .....	53
Figure 31	U.S. Nonwoven Material Exports to Mexico by Weight, 2012 to 2022 with 2022 Tonnes, Tonnes .....	54
Figure 32	U.S. Nonwoven Material Imports from Mexico by Weight, 2012 to 2022 with 2022 Tonnes, Tonnes .....	54
Figure 33	United States – Canada Nonwoven Material Trade, 2012 to 2022, Tonnes .....	55
Figure 34	United States – Canada Nonwoven Material Trade, 2012 to 2022, Dollars.....	56
Figure 35	U.S. Nonwoven Material Exports to Canada by Weight, 2012 to 2022 with 2022 Tonnes, Tonnes .....	57
Figure 36	U.S. Nonwoven Material Imports from Canada by Weight, 2012 to 2022 with 2022 Tonnes, Tonnes .....	57
Figure 37	North American Nonwoven Material Exports by Region Destination, 2012 to 2022 with 2012 and 2022 Tonnes, Tonnes .....	59
Figure 38	North American Nonwoven Material Exports by Detailed Region Destination, 2012 to 2022, 10-Year Compound Annual Growth Rates, Tonnes .....	60
Figure 39	Top 10 Export Countries for North American Nonwoven Material, 2012 to 2022 by 2022 Order, Tonnes .....	62
Figure 40	North American Nonwoven Material Imports by Region of Origin, 2012 to 2022 with 2021 and 2021 Tonnes, Tonnes.....	63
Figure 41	North American Nonwoven Material Imports by Detailed Region of Origin, 2012 to 2022, 10-Year Compound Annual Growth Rates, Tonnes .....	64

Figure 42 Top 10 Import Countries to North America of Nonwoven Material,  
2012 to 2022 by 2022 Order, Tonnes ..... 66

Figure 43 North American Nonwoven Material Imports from China by Weight, 2012 to 2022  
with 2022 Share, 10-Year Compound Annual Growth Rates with 2021 and 2022  
Tonnes, Tonnes..... 67

## List of Tables

Table 1	North American Capacity Compound Annual Growth Rates by Process, 1990 to 2022, 5-Year Periods, Tonnes .....	18
Table 2	North American Capacity Average Annual Growth Rates by Process, 2012 to 2022, Tonnes .....	23
Table 3	North American Drylaid Capacity Average Annual Growth Rates by Process, 2012 to 2022, Tonnes .....	25
Table 4	North American Spunlaid Capacity Average Annual Growth Rates by Process, 2012 to 2022, Tonnes .....	26
Table 5	North American Annual Additions by Line Type, 2017 to 2022 .....	27
Table 6	North American Capacity, Production, and U.S. GDP Compound Annual Growth Rates: 2005 to 2010, 2010 to 2015, 2015 to 2022 and 2005 to 2022 .....	29
Table 7	North American Production Compound Annual Growth Rates by Process: 2005 to 2010, 2010 to 2015, 2015 to 2022 and 2005 to 2022, Tonnes .....	31
Table 8	North American Capacity, Production, and U.S. GDP Average Annual Growth Rates, 2017 to 2022 .....	33
Table 9	North American Capacity and Production Average Annual Growth Rates by Process, 2022, Tonnes .....	35
Table 10	Top 10 Countries for North American Nonwoven Material Exports Yearly Comparison 2012, 2021 and 2022 with Percentage Share of Exports, Tonnes .....	61
Table 11	Top 10 Countries Importing Nonwoven Material to North America Yearly Comparison 2012, 2021 and 2022 with Percentage Share of Imports, Tonnes.....	65