

Glass Fiber Yarn Market by Fiber Type (E-glass type, S-glass type), Yarn Type (Single Yarn, Piled yarn), Application (PCB, Facade, Marble & Mosaic Tiles, Structural parts), End-use Industry and Region - Global Forecast to 2027

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Report description:

The global glass fiber yarn market is estimated to be USD 2.5 Billion in 2022 and is projected to reach USD 3.5 Billion by 2027, at a CAGR of 6.5% between 2022 and 2027.

Glass fiber yarns are woven on air-jet looms or rapier looms to manufacture printed circuit boards (PCBs) for radios, television units, mobile phones, personal computers, servers, and digital cameras. They are made from natural or synthetic fibers and are also used to develop industrial cloth and materials. Other applications of yarns include the development of reinforced cloth for construction and grinding wheel discs.

"E-glass type is the largest market in glass fiber type of glass fiber yarn, in terms of value."

The E-glass fiber segment led the overall market with a market share of 55.3%, in terms of value, in 2021. Due to the outstanding electric insulation properties of E-glass fiber, it is suitable as the base material in the information and electronic industries. The main applications of E-glass fiber yarn include personal computers and peripheral equipment, LED TVs, telecommunications, base station servo devices, digital equipment, and automobile panels, among others. The S-glass fiber segment is expected to register the highest CAGR during the forecast period.

"PCB is the fastest-growing application of glass fiber yarn, in terms of value."

A printed circuit board, or PCB, is a type of circuit board that is used to mechanically support and electrically connect electronic components by etching conductive pathways, tracks, or signal traces from copper sheets laminated onto a non-conductive substrate. In terms of value, the glass fiber yarn market in the PCB segment in Asia Pacific is projected to register a CAGR of 7.1% during the forecast period. The market for this segment in North America is projected to witness a CAGR of 5%.

The high growth of the market for this segment in Asia Pacific is attributed to the rising expenditure on personal electronics and other electronic appliances in Asian countries. The long-term trend of miniaturization and increased use of electronics in

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commercial and consumer products will fuel the growth of the glass fiber yarn market in the electronics sector. China is expected to dominate the Asia Pacific electronics market during the forecast period, while India is expected to register a substantial growth rate due to increasing consumer awareness and rapid industrialization.

"Wind energy is the fastest-growing end-use industry of glass fiber yarn, in terms of value."

Wind turbine blades are critical components of wind power generation systems. Glass fiber yarn is used in the manufacturing of wind turbine blades as it offers exceptional properties, such as high tensile strength. Wind turbine blades made of glass fiber can function effectively even under adverse environmental conditions, owing to the corrosion-resistance properties of glass fiber. In addition to turbine blades, glass fiber yarn is used in generator rooms, nacelles, and domes of wind turbine generator systems. The market of glass fiber yarn in wind energy sector is expected to grow with a CAGR of 7.6% during the forecast period.

"China is the fastest-growing Glass Fiber Yarn market in Asia Pacific region."

China accounted for 56% of the Asia Pacific glass fiber yarn market, in terms of value, in 2021. Globally, it is one of the leading manufacturers and consumers of glass fiber yarn, owing to the presence of a large number of electronic chips manufacturing companies, increasing demand for automobiles, and growing wind turbine installations in recent years.

The electrical & electronics industry is the largest consumer of glass fiber yarn in the country, accounting for 27.08% , in terms of value, in 2021. The wind energy industry is the fastest-growing segment in the country. The high growth in the wind energy sector is attributed to the increasing focus on renewable energy resources. The market in the automotive & transportation segment is also projected to register a high CAGR of 8.1% during the forecast period and reach a market size of USD 195.58 million by 2027.

This study has been validated through primary interviews conducted with various industry experts globally. These primary sources have been divided into the following three categories:

-□By Company Type- Tier 1- 37%, Tier 2- 33%, and Tier 3- 30%

-□By Designation- C Level- 50%, Director Level- 20%, and Others- 30%

-□By Region- North America- 15%, Europe- 50%, Asia Pacific (APAC) - 20%, Latin America-5%, Middle East & Africa (MEA)-10%,

The report provides a comprehensive analysis of company profiles stated below:

Owens Corning (US), China Jushi Group Ltd (China), Chongqing Polycomp International Corporation (China), Saint-Gobain S.A (France), Nippon Electric Glass Co. Ltd (Japan), AGY Holdings Corp. (US), China Beihai Fiberglass Co. Ltd. (China), Taiwan Glass Industry Corp. (Taiwan)

Research Coverage

This report covers the global glass fiber yarn market and forecasts the market size until 2026. The report includes the market segmentation - Glass Fiber Type (E-glass fiber, S-glass fiber and Other), Yarn Type(Single Yarn, Piled yarn, and others), Application (PCB, Facade, Marble & Mosaic Tiles, Structural parts and others), End-use Industry (Wind Energy, Automotive & Transportation, Building & Construction, Marine, , Electrical & Electronics, and Others) and Region (Europe, North America, APAC, South America, and MEA). Porter's Five Forces analysis, along with the drivers, restraints, opportunities, and challenges, are discussed in the report. It also provides company profiles and competitive strategies adopted by the major players in the global glass fiber yarn market.

Key benefits of buying the report:

The report will help market leaders/new entrants in this market in the following ways:

1. This report segments the global glass fiber yarn market comprehensively and provides the closest approximations of the revenues for the overall market and the sub-segments across different verticals and regions.
2. The report helps stakeholders understand the pulse of the glass fiber yarnmarket and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to better their position in their businesses. The competitive landscape section includes the competitor ecosystem, new product development, agreement, and acquisitions.

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Reasons to buy the report:

The report will help market leaders/new entrants in this market by providing them with the closest approximations of the revenues for the overall glass fiber yarn market and the sub-segments. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities

Table of Contents:

- 1 INTRODUCTION 31
- 1.1 STUDY OBJECTIVES 31
- 1.2 MARKET DEFINITION 31
 - 1.2.1 INCLUSIONS AND EXCLUSIONS 32
- 1.3 STUDY SCOPE 32
 - 1.3.1 GLASS FIBER YARN MARKET SEGMENTATION 32
 - 1.3.2 REGIONS COVERED 33
 - 1.3.3 YEARS CONSIDERED 33
- 1.4 CURRENCY CONSIDERED 34
- 1.5 UNIT CONSIDERED 34
- 1.6 LIMITATIONS 34
- 1.7 STAKEHOLDERS 34
- 2 RESEARCH METHODOLOGY 35
 - 2.1 RESEARCH DATA 35
 - FIGURE 1 GLASS FIBER YARN MARKET: RESEARCH DESIGN 35
 - 2.2 BASE NUMBER CALCULATION 36
 - 2.2.1 MARKET SIZE ESTIMATION 36
 - 2.2.2 MARKET SIZE CALCULATION, BY END-USE INDUSTRY 37
 - 2.3 FORECAST NUMBER CALCULATION 37
 - 2.3.1 SECONDARY DATA 37
 - 2.3.1.1 Key data from secondary sources 38
 - 2.3.2 PRIMARY DATA 39
 - 2.3.2.1 Key data from primary sources 39
 - 2.3.2.2 Primary interviews - Top glass fiber yarn manufacturers 39
 - 2.3.2.3 Breakdown of primary interviews 40
 - 2.3.2.4 Key industry insights 40
 - 2.4 MARKET SIZE ESTIMATION 41
 - 2.4.1 BOTTOM-UP APPROACH 41
 - FIGURE 2 GLASS FIBER YARN MARKET: BOTTOM-UP APPROACH 41
 - 2.4.2 TOP-DOWN APPROACH 42
 - FIGURE 3 GLASS FIBER YARN MARKET: TOP-DOWN APPROACH 42
 - 2.5 DATA TRIANGULATION 42
 - FIGURE 4 GLASS FIBER YARN MARKET: DATA TRIANGULATION 43
 - 2.6 FACTOR ANALYSIS 43
 - 2.7 ASSUMPTIONS 44
 - 2.8 MARKET GROWTH RATE ASSUMPTIONS/GROWTH FORECAST 44
 - 2.9 LIMITATIONS 45

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2.10 RISKS ASSOCIATED WITH GLASS FIBER YARN MARKET 45

3 EXECUTIVE SUMMARY 46

FIGURE 5 E-GLASS FIBER SEGMENT LED OVERALL GLASS FIBER YARN MARKET IN 2021 47

FIGURE 6 OTHERS SEGMENT ACCOUNTED FOR MAJOR SHARE OF OVERALL GLASS FIBER YARN MARKET 47

FIGURE 7 PCB IS LARGEST APPLICATION OF GLASS FIBER YARN MARKET 48

FIGURE 8 ELECTRICAL & ELECTRONICS SEGMENT LED GLASS FIBER YARN MARKET IN 2021 48

FIGURE 9 CHINA PROJECTED TO LEAD GLASS FIBER MARKET DURING FORECAST PERIOD 49

FIGURE 10 ASIA PACIFIC LED GLOBAL GLASS FIBER YARN MARKET IN 2021 49

4 PREMIUM INSIGHTS 51

4.1 ATTRACTIVE OPPORTUNITIES IN GLASS FIBER YARN MARKET 51

FIGURE 11 RISING DEMAND FOR CONSUMER ELECTRONICS AND LIGHTWEIGHT VEHICLES TO DRIVE GLASS FIBER YARN MARKET 51

4.2 GLASS FIBER YARN MARKET, BY GLASS FIBER TYPE 51

FIGURE 12 E-GLASS FIBER SEGMENT ACCOUNTED FOR LARGEST MARKET SHARE IN 2021 51

4.3 GLASS FIBER YARN MARKET, BY YARN TYPE 52

FIGURE 13 OTHERS SEGMENT ACCOUNTED FOR LARGEST MARKET SHARE IN 2021 52

4.4 GLASS FIBER YARN MARKET, BY APPLICATION 52

FIGURE 14 PCB WAS LARGEST APPLICATION IN 2021 52

4.5 GLASS FIBER YARN MARKET, BY END-USE INDUSTRY 53

FIGURE 15 ELECTRICAL & ELECTRONICS WAS LARGEST END-USE INDUSTRY IN 2021 53

4.6 GLASS FIBER YARN MARKET, BY KEY COUNTRIES 53

FIGURE 16 MARKET IN INDIA TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD 53

5 MARKET OVERVIEW 54

5.1 INTRODUCTION 54

5.2 MARKET DYNAMICS 54

FIGURE 17 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN GLASS FIBER YARN MARKET 54

5.2.1 DRIVERS 55

5.2.1.1 Increasing consumption of glass fiber yarn in automotive and marine applications 55

5.2.1.2 Extensive use of glass fiber yarn in construction industry 55

5.2.1.3 Increasing demand for PCBs made of glass fiber fabrics 55

5.2.2 RESTRAINTS 55

5.2.2.1 Issues associated with glass fiber yarn recycling 55

5.2.2.2 High production cost of glass fiber yarn 56

?

5.2.3 OPPORTUNITIES 56

5.2.3.1 Increasing demand for power generation from renewable sources 56

5.2.3.2 Increasing demand for glass fiber yarn in Middle East & Africa for construction and infrastructure 56

5.2.3.3 Increasing demand from wind energy sector in US 56

5.2.4 CHALLENGES 57

5.2.4.1 Capital-intensive production and complex manufacturing process of glass fiber yarn 57

5.3 INDUSTRY TRENDS 57

5.3.1 PORTER'S FIVE FORCE ANALYSIS 57

FIGURE 18 GLASS FIBER YARN MARKET: PORTER'S FIVE FORCE ANALYSIS 57

5.3.2 THREAT OF NEW ENTRANTS 58

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5.3.3	THREAT OF SUBSTITUTES	58
5.3.4	BARGAINING POWER OF SUPPLIERS	58
5.3.5	BARGAINING POWER OF BUYERS	58
5.3.6	INTENSITY OF COMPETITIVE RIVALRY	58
TABLE 1 GLASS FIBER YARN MARKET: PORTER'S FIVE FORCE ANALYSIS		59
5.4	ECOSYSTEM: GLASS FIBER YARN MARKET	59
5.5	VALUE CHAIN ANALYSIS	60
FIGURE 19 GLASS FIBER YARN MARKET: VALUE CHAIN ANALYSIS		60
5.5.1	RAW MATERIALS	60
5.5.2	MANUFACTURERS	60
5.6	SUPPLY CHAIN ANALYSIS	61
5.7	IMPACT OF COVID-19	62
5.7.1	IMPACT OF COVID-19 ON AUTOMOTIVE AND TRANSPORTATION INDUSTRIES	62
5.7.2	IMPACT OF COVID-19 ON MARINE AND AEROSPACE INDUSTRIES	62
5.8	GLASS FIBER YARN MARKET: OPTIMISTIC, PESSIMISTIC, AND REALISTIC SCENARIOS	62
TABLE 2 GLASS FIBER YARN MARKET: CAGR (BY VALUE) IN OPTIMISTIC, PESSIMISTIC AND REALISTIC SCENARIOS		62
5.8.1	OPTIMISTIC SCENARIO	63
5.8.2	PESSIMISTIC SCENARIO	63
5.8.3	REALISTIC SCENARIO	63
5.9	PRICING ANALYSIS	63
5.10	AVERAGE SELLING PRICE	63
TABLE 3 GLASS FIBER YARN: AVERAGE SELLING PRICE		63
TABLE 4 AVERAGE SELLING PRICES OF KEY PLAYERS (USD/KG), BY END-USE INDUSTRY		63
5.11	KEY MARKETS FOR IMPORT/EXPORT	64
5.11.1	JAPAN	64
5.11.2	CHINA	64
5.11.3	SOUTH KOREA	64
5.11.4	US	64
5.11.5	INDIA	64
5.12	PATENT ANALYSIS	65
5.12.1	INTRODUCTION	65
5.12.2	METHODOLOGY	65
5.12.3	DOCUMENT TYPE	65
TABLE 5 GLASS FIBER YARN MARKET: GLOBAL PATENTS		65
FIGURE 20 GLOBAL PATENT PUBLICATION TREND ANALYSIS: 2011-2021		66
5.12.4	INSIGHTS	66
5.12.5	LEGAL STATUS OF PATENTS	66
FIGURE 21 GLASS FIBER YARN MARKET: LEGAL STATUS OF PATENTS		66
5.12.6	JURISDICTION ANALYSIS	67
FIGURE 22 GLOBAL JURISDICTION ANALYSIS		67
5.12.7	TOP APPLICANT'S ANALYSIS	67
FIGURE 23 SCOTT & FYFE LTD HAS HIGHEST NUMBER OF PATENTS		67
5.12.8	LIST OF PATENTS	68
5.13	TECHNOLOGY ANALYSIS	68
5.14	CASE STUDY ANALYSIS	69
5.15	TARIFFS AND REGULATIONS	70
TABLE 6 CURRENT CODES FOR GLASS FIBER YARN MARKET		70

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5.16 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS 70

6 GLASS FIBER YARN MARKET, BY GLASS FIBER TYPE 72

6.1 INTRODUCTION 73

FIGURE 24 E-GLASS FIBER TO LEAD OVERALL MARKET DURING FORECAST PERIOD 73

TABLE 7 GLASS FIBER YARN MARKET SIZE, BY GLASS FIBER TYPE, 2020-2027 (USD MILLION) 73

TABLE 8 GLASS FIBER YARN MARKET SIZE, BY GLASS FIBER TYPE, 2020-2027 (KILOTON) 73

6.2 E-GLASS FIBER 74

6.2.1 E-GLASS FIBERS WIDELY USED IN TEXTILE INDUSTRY 74

FIGURE 25 ASIA PACIFIC TO BE LEADING MARKET FOR E-GLASS FIBER YARN 74

6.2.2 E-GLASS FIBER: GLASS FIBER YARN MARKET, BY REGION 75

TABLE 9 E-GLASS FIBER: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 75

TABLE 10 E-GLASS FIBER: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 75

TABLE 11 E-GLASS PRODUCT SPECIFICATIONS AND ITS APPLICATION 76

6.3 S-GLASS FIBER 77

6.3.1 S-GLASS FIBER USED IN HIGH-PERFORMANCE APPLICATIONS 77

FIGURE 26 ASIA PACIFIC DOMINATES MARKET FOR S-GLASS FIBER SEGMENT 78

6.3.2 S-GLASS FIBER: GLASS FIBER YARN MARKET, BY REGION 78

TABLE 12 S-GLASS FIBER: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 78

?

TABLE 13 S-GLASS FIBER: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 78

TABLE 14 S-GLASS PRODUCT SPECIFICATION AND ITS APPLICATION 79

6.4 OTHERS 79

6.4.1 OTHER GLASS FIBER TYPES: GLASS FIBER YARN MARKET, BY REGION 79

TABLE 15 OTHER GLASS FIBER TYPES: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 79

TABLE 16 OTHER GLASS FIBER TYPES: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 80

TABLE 17 OTHER GLASS FIBER YARN PRODUCTS SPECIFICATION AND THEIR APPLICATION 80

7 GLASS FIBER YARN MARKET, BY YARN TYPE 82

7.1 INTRODUCTION 83

FIGURE 27 PLIED YARN SEGMENT PROJECTED TO WITNESS HIGHEST CAGR 83

TABLE 18 GLASS FIBER YARN MARKET SIZE, BY YARN TYPE, 2020-2027 (USD MILLION) 83

TABLE 19 GLASS FIBER YARN MARKET SIZE, BY YARN TYPE, 2020-2027 (KILOTON) 83

7.2 SINGLE 84

7.2.1 RISING DEMAND FOR LIGHTWEIGHT PRODUCTS IN VARIOUS INDUSTRIES 84

FIGURE 28 ASIA PACIFIC TO BE LARGEST MARKET FOR SINGLE YARN SEGMENT 84

7.2.2 SINGLE: GLASS FIBER YARN MARKET, BY REGION 84

TABLE 20 SINGLE: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027(USD MILLION) 84

TABLE 21 SINGLE: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 85

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7.3 PLYED 85

7.3.1 PLYED GLASS FIBER YARN USED FOR HIGH-STRENGTH APPLICATION 85

FIGURE 29 ASIA PACIFIC TO BE FASTEST-GROWING MARKET FOR PLYED YARN SEGMENT 85

7.3.2 PLYED: GLASS FIBER YARN MARKET, BY REGION 86

TABLE 22 PLYED: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 86

TABLE 23 PLYED: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 86

7.4 OTHERS 86

FIGURE 30 ASIA PACIFIC TO BE LARGEST MARKET IN OTHERS SEGMENT 87

7.4.1 OTHERS: GLASS FIBER YARN MARKET, BY REGION 87

TABLE 24 OTHERS: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 87

TABLE 25 OTHERS: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 87

?

8 GLASS FIBER YARN MARKET, BY APPLICATION 88

8.1 INTRODUCTION 89

FIGURE 31 PCB TO LEAD GLASS FIBER YARN MARKET DURING FORECAST PERIOD 89

TABLE 26 GLASS FIBER YARN MARKET SIZE, BY APPLICATION, 2020-2027 (USD MILLION) 89

TABLE 27 GLASS FIBER YARN MARKET SIZE, BY APPLICATION, 2020-2027 (KILOTON) 90

8.2 PCB 90

8.2.1 RISING DEMAND FOR CONSUMER ELECTRONICS FUELING MARKET IN PCB APPLICATION 90

FIGURE 32 ASIA PACIFIC TO BE LARGEST MARKET IN PCB APPLICATION 91

8.2.2 PCB: GLASS FIBER YARN MARKET, BY REGION 91

TABLE 28 PCB: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 91

TABLE 29 PCB: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 91

TABLE 30 PRODUCT SPECIFICATION FOR PCB APPLICATION 92

8.3 FACADE 93

8.3.1 GLASS FIBER YARN USED FOR EXTERNAL INSULATION OF BUILDINGS 93

FIGURE 33 ASIA PACIFIC TO LEAD MARKET IN FACADE APPLICATION 93

8.3.2 FACADE: GLASS FIBER YARN MARKET, BY REGION 93

TABLE 31 FACADE: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 93

TABLE 32 FACADE: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 94

TABLE 33 PRODUCT SPECIFICATION FOR FACADE APPLICATION 94

8.4 MARBLE & MOSAIC TILES 95

8.4.1 AVAILABILITY IN VARIOUS STYLES AND COLORS 95

FIGURE 34 ASIA PACIFIC TO BE LARGEST MARKET IN MARBLE & MOSAIC TILES APPLICATION 95

8.4.2 MARBLE & MOSAIC TILES: GLASS FIBER YARN MARKET, BY REGION 96

TABLE 34 MARBLE & MOSAIC TILES: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 96

TABLE 35 MARBLE & MOSAIC TILES: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 96

8.5 STRUCTURAL PARTS 96

8.5.1 DEMAND FOR LIGHTWEIGHT VEHICLES DRIVING USAGE OF GLASS FIBER YARNS IN AUTOMOTIVE STRUCTURAL PARTS 96

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FIGURE 35 ASIA PACIFIC TO BE LARGEST MARKET IN STRUCTURAL PARTS APPLICATION 97

8.5.2 STRUCTURAL PARTS: GLASS FIBER YARN MARKET, BY REGION 97

TABLE 36 STRUCTURAL PARTS: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 97

TABLE 37 STRUCTURAL PARTS: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 97

TABLE 38 PRODUCT SPECIFICATION FOR STRUCTURAL PARTS 98

?

8.6 OTHERS 99

8.6.1 OTHER APPLICATIONS: GLASS FIBER YARN MARKET, BY REGION 99

TABLE 39 OTHER APPLICATIONS: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 99

TABLE 40 OTHER APPLICATIONS: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 99

TABLE 41 PRODUCT SPECIFICATION FOR OTHER APPLICATIONS 100

9 GLASS FIBER YARN MARKET, BY END-USE INDUSTRY 102

9.1 INTRODUCTION 103

FIGURE 36 ELECTRICAL & ELECTRONICS SEGMENT TO LEAD GLASS FIBER YARN MARKET DURING FORECAST PERIOD 103

TABLE 42 GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 104

TABLE 43 GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 104

9.2 ELECTRICAL & ELECTRONICS 105

9.2.1 GLASS FIBER YARN USED IN ELECTRONICS DUE TO HIGH THERMAL RESISTANCE AND ELECTRICAL CONDUCTIVITY 105

FIGURE 37 ASIA PACIFIC TO BE LARGEST MARKET IN ELECTRICAL & ELECTRONICS SEGMENT 105

9.2.2 ELECTRICAL & ELECTRONICS: GLASS FIBER YARN MARKET, BY REGION 105

TABLE 44 ELECTRICAL & ELECTRONICS: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 105

TABLE 45 ELECTRICAL & ELECTRONICS: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 106

TABLE 46 SPECIFICATION OF GLASS FIBER YARN PRODUCTS USED IN ELECTRICAL & ELECTRONICS 106

9.3 AUTOMOTIVE & TRANSPORTATION 107

9.3.1 WEIGHT REDUCTION AND INCREASED PROCESSING SPEED ENCOURAGE GLASS FIBER YARN ADOPTION 107

FIGURE 38 ASIA PACIFIC TO BE LARGEST MARKET IN AUTOMOTIVE & TRANSPORTATION 107

9.3.2 AUTOMOTIVE & TRANSPORTATION: GLASS FIBER YARN MARKET, BY REGION 107

TABLE 47 AUTOMOTIVE & TRANSPORTATION: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 107

TABLE 48 AUTOMOTIVE & TRANSPORTATION: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 108

TABLE 49 SPECIFICATION OF GLASS FIBER YARN PRODUCTS USED IN AUTOMOTIVE & TRANSPORTATION 108

9.4 WIND ENERGY 109

9.4.1 HIGH TENSILE STRENGTH OF GLASS FIBER YARN FUELING DEMAND IN WIND TURBINE BLADES MANUFACTURING 109

FIGURE 39 ASIA PACIFIC TO BE LARGEST MARKET IN WIND ENERGY SEGMENT 109

9.4.2 WIND ENERGY: GLASS FIBER YARN MARKET, BY REGION 109

TABLE 50 WIND ENERGY: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 109

TABLE 51 WIND ENERGY: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 110

TABLE 52 SPECIFICATION OF GLASS FIBER YARN PRODUCTS USED IN WIND ENERGY 110

9.5 BUILDING & CONSTRUCTION 110

9.5.1 WEIGHT, TENSILE STRENGTH, AND STRENGTH-TO-WEIGHT RATIO OF GLASS FIBER YARN IDEAL FOR THIS SEGMENT 110

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FIGURE 40 ASIA PACIFIC DOMINATES GLASS FIBER YARN MARKET IN BUILDING & CONSTRUCTION 111

9.5.2 BUILDING & CONSTRUCTION: GLASS FIBER YARN MARKET, BY REGION 111

TABLE 53 BUILDING & CONSTRUCTION: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 111

TABLE 54 BUILDING & CONSTRUCTION: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 112

TABLE 55 SPECIFICATION OF GLASS FIBER YARN PRODUCTS USED FOR BUILDING & CONSTRUCTION 112

9.6 MARINE 113

9.6.1 GROWING MARINE INDUSTRY TO BOOST MARKET 113

FIGURE 41 ASIA PACIFIC TO BE LARGEST MARKET IN MARINE SEGMENT 113

9.6.2 MARINE: GLASS FIBER YARN MARKET, BY REGION 113

TABLE 56 MARINE: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 113

TABLE 57 MARINE: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 114

TABLE 58 SPECIFICATION OF GLASS FIBER YARN PRODUCTS USED IN MARINE 114

9.7 OTHER END-USE INDUSTRIES 114

9.7.1 HIGH QUALITY, LIGHTWEIGHT, AND CORROSION RESISTANCE PROPERTIES MAKE GLASS FIBER YARN IDEAL FOR THIS SEGMENT 114

9.7.2 OTHER END-USE INDUSTRIES: GLASS FIBER YARN MARKET, BY REGION 115

TABLE 59 OTHER END-USE INDUSTRIES: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 115

TABLE 60 OTHER END-USE INDUSTRIES: GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (KILOTON) 115

TABLE 61 SPECIFICATION OF GLASS FIBER YARN PRODUCTS USED IN OTHER INDUSTRIES 115

10 GLASS FIBER YARN MARKET, BY REGION 117

10.1 INTRODUCTION 118

FIGURE 42 INDIA TO BE FASTEST-GROWING GLASS FIBER YARN MARKET DURING FORECAST PERIOD 118

TABLE 62 GLASS FIBER YARN MARKET SIZE, BY REGION, 2020-2027 (USD MILLION) 119

TABLE 63 GLASS FIBER YARN MARKET, BY REGION, 2020-2027 (KILOTON) 119

10.2 NORTH AMERICA 120

FIGURE 43 NORTH AMERICA: GLASS FIBER YARN MARKET SNAPSHOT 120

10.2.1 GLASS FIBER YARN MARKET IN NORTH AMERICA, BY YARN TYPE 121

TABLE 64 NORTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY YARN TYPE, 2020-2027 (USD MILLION) 121

TABLE 65 NORTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY YARN TYPE, 2020-2027 (KILOTON) 121

10.2.2 GLASS FIBER YARN MARKET IN NORTH AMERICA, BY GLASS FIBER TYPE 121

TABLE 66 NORTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY GLASS FIBER TYPE, 2020-2027 (USD MILLION) 121

TABLE 67 NORTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY GLASS FIBER TYPE, 2020-2027 (KILOTON) 122

10.2.3 GLASS FIBER YARN MARKET IN NORTH AMERICA, BY APPLICATION 122

TABLE 68 NORTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY APPLICATION, 2020-2027 (USD MILLION) 122

TABLE 69 NORTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY APPLICATION, 2020-2027 (KILOTON) 122

10.2.4 GLASS FIBER YARN MARKET IN NORTH AMERICA, BY END-USE INDUSTRY 123

TABLE 70 NORTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 123

TABLE 71 NORTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 123

10.2.5 GLASS FIBER YARN MARKET IN NORTH AMERICA, BY COUNTRY 124

TABLE 72 NORTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY COUNTRY, 2020-2027 (USD MILLION) 124

TABLE 73 NORTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY COUNTRY, 2020-2027 (KILOTON) 124

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10.2.5.1 US 124

10.2.5.1.1 Increasing demand for automobiles to fuel glass fiber yarn demand 124

TABLE 74 US: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 125

TABLE 75 US: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 125

10.2.5.2 Canada 126

10.2.5.2.1 Demand in aerospace industry driving glass fiber yarn market in Canada 126

TABLE 76 CANADA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 126

TABLE 77 CANADA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 126

10.2.5.3 Mexico 127

10.2.5.3.1 Growth in energy infrastructure driving glass fiber yarn market 127

TABLE 78 MEXICO: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 127

TABLE 79 MEXICO: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 128

10.3 EUROPE 128

FIGURE 44 EUROPE: GLASS FIBER YARN MARKET SNAPSHOT 129

10.3.1 GLASS FIBER YARN MARKET IN EUROPE, BY YARN TYPE 129

TABLE 80 EUROPE: GLASS FIBER YARN MARKET SIZE, BY YARN TYPE, 2020-2027 (USD MILLION) 129

TABLE 81 EUROPE: GLASS FIBER YARN MARKET SIZE, BY YARN TYPE, 2020-2027 (KILOTON) 130

10.3.2 GLASS FIBER YARN MARKET IN EUROPE, BY GLASS FIBER TYPE 130

TABLE 82 EUROPE: GLASS FIBER YARN MARKET SIZE, BY GLASS FIBER TYPE, 2020-2027 (USD MILLION) 130

TABLE 83 EUROPE: GLASS FIBER YARN MARKET SIZE, BY GLASS FIBER TYPE, 2020-2027 (KILOTON) 130

10.3.3 GLASS FIBER YARN MARKET IN EUROPE, BY APPLICATION 131

TABLE 84 EUROPE: GLASS FIBER YARN MARKET SIZE, BY APPLICATION, 2020-2027 (USD MILLION) 131

TABLE 85 EUROPE: GLASS FIBER YARN MARKET SIZE, BY APPLICATION, 2020-2027 (KILOTON) 131

10.3.4 GLASS FIBER YARN MARKET IN EUROPE, BY END-USE INDUSTRY 132

TABLE 86 EUROPE: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 132

TABLE 87 EUROPE: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 132

10.3.5 GLASS FIBER YARN MARKET IN EUROPE, BY COUNTRY 133

TABLE 88 EUROPE: GLASS FIBER YARN MARKET SIZE, BY COUNTRY, 2020-2027 (USD MILLION) 133

TABLE 89 EUROPE: GLASS FIBER YARN MARKET SIZE, BY COUNTRY, 2020-2027 (KILOTON) 133

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10.3.5.1 Germany 134

10.3.5.1.1 Increasing demand in automotive applications to drive consumption of glass fiber yarn 134

TABLE 90 GERMANY: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 134

TABLE 91 GERMANY: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 134

10.3.5.2 France 135

10.3.5.2.1 France witnessing increasing consumption of glass fiber yarn in construction industry 135

TABLE 92 FRANCE: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 135

TABLE 93 FRANCE: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 136

10.3.5.3 UK 136

10.3.5.3.1 Improvement in economy fueling glass fiber yarn market 136

TABLE 94 UK: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 136

TABLE 95 UK: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 137

10.3.5.4 Italy 137

10.3.5.4.1 Increasing consumption in building & construction industry driving glass fiber yarn market 137

TABLE 96 ITALY: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 137

TABLE 97 ITALY: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 138

10.3.5.5 Russia 138

10.3.5.5.1 Government initiatives toward composite consumption fueling glass fiber yarn market 138

TABLE 98 RUSSIA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 138

TABLE 99 RUSSIA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 139

10.3.5.6 Spain 139

10.3.5.6.1 Growth in wind energy sector impacting glass fiber yarn market positively 139

TABLE 100 SPAIN: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 140

TABLE 101 SPAIN: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 140

10.3.5.7 Turkey 140

10.3.5.7.1 Advancements in automotive technology to boost glass fiber yarn market 140

TABLE 102 TURKEY: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 141

TABLE 103 TURKEY: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 141

10.3.5.8 Rest of Europe 142

10.3.5.8.1 Cost of raw material and labor to impact growth of glass fiber yarn market 142

TABLE 104 REST OF EUROPE: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 142

TABLE 105 REST OF EUROPE: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 142

10.4 ASIA PACIFIC 143

FIGURE 45 ASIA PACIFIC: GLASS FIBER YARN MARKET SNAPSHOT 144

10.4.1 GLASS FIBER YARN MARKET IN ASIA PACIFIC, BY YARN TYPE 144

TABLE 106 ASIA PACIFIC: GLASS FIBER YARN MARKET SIZE, BY YARN TYPE,

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2020-2027 (USD MILLION) 144

TABLE 107 ASIA PACIFIC: GLASS FIBER YARN MARKET SIZE, BY YARN TYPE, 2020-2027 (KILOTON) 145

10.4.2 GLASS FIBER YARN MARKET IN ASIA PACIFIC, BY GLASS FIBER TYPE 145

TABLE 108 ASIA PACIFIC: GLASS FIBER YARN MARKET SIZE, BY GLASS FIBER TYPE, 2020-2027 (USD MILLION) 145

TABLE 109 ASIA PACIFIC: GLASS FIBER YARN MARKET SIZE, BY GLASS FIBER TYPE, 2020-2027 (KILOTON) 145

10.4.3 GLASS FIBER YARN MARKET IN ASIA PACIFIC, BY APPLICATION 146

TABLE 110 ASIA PACIFIC: GLASS FIBER YARN MARKET SIZE, BY APPLICATION, 2020-2027 (USD MILLION) 146

TABLE 111 ASIA PACIFIC: GLASS FIBER YARN MARKET SIZE, BY APPLICATION, 2020-2027 (KILOTON) 146

?

10.4.4 GLASS FIBER YARN MARKET IN ASIA PACIFIC, BY END-USE INDUSTRY 147

TABLE 112 ASIA PACIFIC: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 147

TABLE 113 ASIA PACIFIC: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 147

10.4.5 GLASS FIBER YARN MARKET IN ASIA PACIFIC, BY COUNTRY 148

TABLE 114 ASIA PACIFIC: GLASS FIBER YARN MARKET SIZE, BY COUNTRY, 2020-2027 (USD MILLION) 148

TABLE 115 ASIA PACIFIC: GLASS FIBER YARN MARKET SIZE, BY COUNTRY, 2020-2027 (KILOTON) 148

10.4.5.1 China 149

10.4.5.1.1 Increasing wind turbine installation to boost consumption of glass fiber yarn 149

TABLE 116 CHINA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 149

TABLE 117 CHINA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 149

10.4.5.2 Japan 150

10.4.5.2.1 Increasing installation of offshore wind farms boosts consumption of glass fiber yarn 150

TABLE 118 JAPAN: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 150

TABLE 119 JAPAN: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 150

10.4.5.3 India 151

10.4.5.3.1 Improvement in economy fueling glass fiber yarn market 151

TABLE 120 INDIA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 151

TABLE 121 INDIA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 152

10.4.5.4 South Korea 152

10.4.5.4.1 Growing demand for wind turbines to boost glass fiber yarn market 152

TABLE 122 SOUTH KOREA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 153

TABLE 123 SOUTH KOREA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 153

10.4.5.5 Rest of Asia Pacific 154

10.4.5.5.1 Cost of raw material and labor to impact growth of glass fiber yarn market 154

TABLE 124 REST OF ASIA PACIFIC: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 154

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TABLE 125	REST OF ASIA PACIFIC: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON)	155
10.5	MIDDLE EAST & AFRICA	155
10.5.1	GLASS FIBER YARN MARKET IN MIDDLE EAST & AFRICA, BY YARN TYPE	155
TABLE 126	MIDDLE EAST & AFRICA; GLASS FIBER YARN MARKET SIZE, BY YARN TYPE, 2020-2027 (USD MILLION)	155
TABLE 127	MIDDLE EAST & AFRICA: GLASS FIBER YARN MARKET SIZE, BY YARN TYPE, 2020-2027 (KILOTON)	156
10.5.2	GLASS FIBER YARN MARKET IN MIDDLE EAST & AFRICA, BY GLASS FIBER TYPE	156
TABLE 128	MIDDLE EAST & AFRICA: GLASS FIBER YARN MARKET SIZE, BY GLASS FIBER TYPE, 2020-2027 (USD MILLION)	156
TABLE 129	MIDDLE EAST & AFRICA: GLASS FIBER YARN MARKET SIZE, BY GLASS FIBER TYPE, 2020-2027 (KILOTON)	156
10.5.3	GLASS FIBER YARN MARKET IN MIDDLE EAST & AFRICA, BY END-USE INDUSTRY	157
TABLE 130	MIDDLE EAST & AFRICA; GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION)	157
TABLE 131	MIDDLE EAST & AFRICA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON)	157
10.5.4	GLASS FIBER YARN MARKET IN MIDDLE EAST & AFRICA, BY APPLICATION	158
TABLE 132	MIDDLE EAST & AFRICA: GLASS FIBER YARN MARKET SIZE, BY APPLICATION, 2020-2027 (USD MILLION)	158
TABLE 133	MIDDLE EAST & AFRICA: GLASS FIBER YARN MARKET SIZE, BY APPLICATION, 2020-2027 (KILOTON)	158
10.5.5	GLASS FIBER YARN MARKET IN MIDDLE EAST & AFRICA, BY COUNTRY	159
TABLE 134	MIDDLE EAST & AFRICA: GLASS FIBER YARN MARKET SIZE, BY COUNTRY, 2020-2027 (USD MILLION)	159
TABLE 135	MIDDLE EAST & AFRICA: GLASS FIBER YARN MARKET SIZE, BY COUNTRY, 2020-2027 (KILOTON)	159
10.5.5.1	Saudi Arabia	159
10.5.5.1.1	Increasing demand in automotive applications to fuel glass fiber yarn consumption	159
TABLE 136	SAUDI ARABIA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION)	160
TABLE 137	SAUDI ARABIA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON)	160
10.5.5.2	UAE	160
10.5.5.2.1	Growth in tourism investments fueling glass fiber yarn market	160
TABLE 138	UAE: GLASS FIBER YARN MARKET, BY END-USE INDUSTRY, 2020-2027 (USD MILLION)	161
TABLE 139	UAE: GLASS FIBER YARN MARKET, BY END-USE INDUSTRY, 2020-2027 (KILOTON)	161
10.5.5.3	South Africa	161
10.5.5.3.1	Improvement in purchase power of people driving market	161
TABLE 140	SOUTH AFRICA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION)	162
TABLE 141	SOUTH AFRICA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON)	162
10.5.5.4	Rest of Middle East & Africa	162
TABLE 142	REST OF MIDDLE EAST & AFRICA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION)	163
TABLE 143	REST OF MIDDLE EAST & AFRICA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON)	163
10.6	SOUTH AMERICA	164
10.6.1	GLASS FIBER YARN MARKET IN SOUTH AMERICA, BY YARN TYPE	164
TABLE 144	SOUTH AMERICA; GLASS FIBER YARN MARKET SIZE, BY YARN TYPE, 2020-2027 (USD MILLION)	164
TABLE 145	SOUTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY YARN TYPE, 2020-2027 (KILOTON)	164
10.6.2	GLASS FIBER YARN MARKET IN SOUTH AMERICA, BY GLASS FIBER TYPE	164
TABLE 146	SOUTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY GLASS FIBER TYPE, 2020-2027 (USD MILLION)	164

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TABLE 147 SOUTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY GLASS FIBER TYPE, 2020-2027 (KILOTON) 165

10.6.3 GLASS FIBER YARN MARKET IN SOUTH AMERICA, BY END-USE INDUSTRY 165

TABLE 148 SOUTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 165

TABLE 149 SOUTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 165

10.6.4 GLASS FIBER YARN MARKET IN SOUTH AMERICA, BY APPLICATION 166

TABLE 150 SOUTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY APPLICATION, 2020-2027 (USD MILLION) 166

TABLE 151 SOUTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY APPLICATION, 2020-2027 (KILOTON) 166

10.6.5 GLASS FIBER YARN MARKET IN SOUTH AMERICA, BY COUNTRY 166

TABLE 152 SOUTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY COUNTRY, 2020-2027 (USD MILLION) 166

TABLE 153 SOUTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY COUNTRY, 2020-2027 (KILOTON) 167

10.6.5.1 Brazil 167

10.6.5.1.1 Growth in automotive industry to fuel glass fiber yarn demand 167

TABLE 154 BRAZIL: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 167

TABLE 155 BRAZIL: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 168

10.6.5.2 Argentina 168

10.6.5.2.1 Growth in investments in wind energy to boost glass fiber yarn market 168

TABLE 156 ARGENTINA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 168

TABLE 157 ARGENTINA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 169

10.6.5.3 Rest of South America 169

10.6.5.3.1 Growth in energy infrastructure fueling glass fiber yarn market 169

?

TABLE 158 REST OF SOUTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (USD MILLION) 169

TABLE 159 REST OF SOUTH AMERICA: GLASS FIBER YARN MARKET SIZE, BY END-USE INDUSTRY, 2020-2027 (KILOTON) 170

11 COMPETITIVE LANDSCAPE 171

11.1 OVERVIEW 171

11.2 MARKET SHARE ANALYSIS 171

FIGURE 46 SHARE OF TOP COMPANIES IN GLASS FIBER YARN MARKET 172

TABLE 160 DEGREE OF COMPETITION: GLASS FIBER YARN MARKET 172

11.3 MARKET RANKING 173

FIGURE 47 RANKING OF TOP FIVE PLAYERS IN GLASS FIBER YARN MARKET 173

11.4 MARKET EVALUATION FRAMEWORK 173

TABLE 161 GLASS FIBER YARN MARKET: DEALS, 2018-2022 173

TABLE 162 GLASS FIBER YARN MARKET: OTHERS, 2018-2022 175

TABLE 163 GLASS FIBER YARN MARKET: NEW PRODUCT DEVELOPMENT, 2018-2022 175

11.5 REVENUE ANALYSIS OF TOP MARKET PLAYERS 177

11.6 COMPANY EVALUATION MATRIX 177

TABLE 164 COMPANY PRODUCT FOOTPRINT 177

TABLE 165 COMPANY GLASS FIBER TYPE FOOTPRINT 178

TABLE 166 COMPANY APPLICATION FOOTPRINT 179

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TABLE 167	COMPANY END-USE INDUSTRY FOOTPRINT	179
TABLE 168	COMPANY REGION FOOTPRINT	180
11.6.1	STRENGTH OF PRODUCT PORTFOLIO	181
FIGURE 48	PRODUCT PORTFOLIO ANALYSIS OF TOP PLAYERS IN GLASS FIBER YARN MARKET	181
11.6.2	BUSINESS STRATEGY EXCELLENCE	182
FIGURE 49	BUSINESS STRATEGY EXCELLENCE OF TOP PLAYERS IN GLASS FIBER YARN MARKET	182
11.7	COMPANY EVALUATION QUADRANT (KEY PLAYERS)	182
11.7.1	STARS	182
11.7.2	PERVASIVE PLAYERS	182
11.7.3	PARTICIPANTS	182
11.7.4	EMERGING LEADERS	183
FIGURE 50	GLASS FIBER YARN MARKET (GLOBAL): COMPETITIVE LEADERSHIP MAPPING, 2021	183
11.8	COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES	184
TABLE 169	GLASS FIBER YARN MARKET: DETAILED LIST OF KEY STARTUPS/SMES	184
TABLE 170	GLASS FIBER YARN MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES	185
11.9	SMALL AND MEDIUM-SIZED ENTERPRISES (SMES) EVALUATION MATRIX	186
11.10	START-UPS/ SMALL AND MEDIUM-SIZED ENTERPRISES (SMES) EVALUATION MATRIX	186
11.10.1	PROGRESSIVE COMPANIES	186
11.10.2	RESPONSIVE COMPANIES	186
11.10.3	DYNAMIC COMPANIES	186
11.10.4	STARTING BLOCKS	186
FIGURE 51	GLASS FIBER YARN MARKET: SMALL AND MEDIUM-SIZED ENTERPRISES MAPPING, 2021	187
12	COMPANY PROFILES	188
	(Business overview, Products offered, Recent Developments, MNM view)*	
12.1	MAJOR PLAYERS	188
12.1.1	OWENS CORNING	188
TABLE 171	OWENS CORNING: COMPANY OVERVIEW	188
FIGURE 52	OWENS CORNING: COMPANY SNAPSHOT	189
12.1.2	CHINA JUSHI CO., LTD.	192
TABLE 172	CHINA JUSHI CO., LTD.: COMPANY OVERVIEW	192
12.1.3	CHONGQING POLYCOMP INTERNATIONAL CORPORATION	194
TABLE 173	CHONGQING POLYCOMP INTERNATIONAL CORPORATION: COMPANY OVERVIEW	194
12.1.4	PFG FIBER GLASS CORPORATION	196
TABLE 174	PFG FIBER GLASS CORPORATION: COMPANY OVERVIEW	196
12.1.5	NIPPON ELECTRIC GLASS CO., LTD.	198
TABLE 175	NIPPON ELECTRIC GLASS CO., LTD.: COMPANY OVERVIEW	198
FIGURE 53	NIPPON ELECTRIC GLASS CO., LTD.: COMPANY SNAPSHOT	199
12.1.6	SAINT-GOBAIN S.A.	201
TABLE 176	SAINT-GOBAIN S.A.: COMPANY OVERVIEW	201
FIGURE 54	SAINT-GOBAIN S.A.: COMPANY SNAPSHOT	201
12.1.7	TAISHAN FIBERGLASS INC.	204
TABLE 177	TAISHAN FIBERGLASS INC.: COMPANY OVERVIEW	204
12.1.8	AGY HOLDINGCORP.	206
TABLE 178	AGY HOLDING CORP.: COMPANY OVERVIEW	206
12.1.9	TAIWAN GLASS INDUSTRY CORPORATION	208

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TABLE 179 TAIWAN GLASS INDUSTRY CORPORATION: COMPANY OVERVIEW 208

FIGURE 55 TAIWAN GLASS INDUSTRY CORPORATION: COMPANY SNAPSHOT 208

12.1.10 FULLTECH FIBER GLASS CORP. 210

TABLE 180 FULLTECH FIBER GLASS CORP.: COMPANY OVERVIEW 210

FIGURE 56 FULLTECH FIBER GLASS CORP.: COMPANY SNAPSHOT 210

12.2 OTHER COMPANIES 212

12.2.1 CHINA BEIHAI FIBERGLASS CO., LTD. 212

12.2.2 PPG INDUSTRIES, INC. 212

12.2.3 NITTO BOSEKI CO., LTD. 212

12.2.4 JIANGSU JIUDING NEW MATERIAL CO., LTD. 212

12.2.5 NEWTEX INDUSTRIES, INC. 212

12.2.6 SHREE LAXMI UDYOG 212

12.2.7 HEBEI YUNIU FIBERGLASS MANUFACTURING CO., LTD. 213

12.2.8 CHANGSHU DONGYU INSULATED COMPOUND MATERIALS CO., LTD. 213

12.2.9 PARABEAM BV 213

12.2.10 VALMIERAS STIKLA SIEDRA 213

*Details on Business overview, Products offered, Recent Developments, MNM view might not be captured in case of unlisted companies.

13 APPENDIX 214

13.1 DISCUSSION GUIDE 214

13.2 KNOWLEDGESTORE: MARKETSDMARKETS' SUBSCRIPTION PORTAL 218

13.3 CUSTOMIZATION OPTIONS 220

13.4 RELATED REPORTS 220

13.5 AUTHOR DETAILS 221

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Glass Fiber Yarn Market by Fiber Type (E-glass type, S-glass type), Yarn Type (Single Yarn, Piled yarn), Application (PCB, Facade, Marble & Mosaic Tiles, Structural parts), End-use Industry and Region - Global Forecast to 2027

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