Abstract

Fluoropolymers are a specialized group of polymeric materials, which are used in a wide range of applications due to unique properties and distinct performance characteristics. The fluoropolymer market presents strong growth driven by the development of new applications and products, advancement of application processes, and new technological developments, as well as strong demands in new markets.

Global demand on fluoropolymers was valued at approximately US$7.25 billion in 2011 and is expected to grow by 5.8% in the coming years. Petrochemical & chemical processing presents the largest application market, and North America and Western Europe are the largest production and consumption markets of fluoropolymers.

With unique properties, distinct performance characteristics, and many new developments in processes and technologies, fluoropolymers provide a market with opportunities and potential.

Acmite Market Intelligence has finished a most comprehensive report on the global fluoropolymer market. It is ready for order.

The report examines the current products and application areas, provides extensive market data of 2011, and market forecast through 2017 to 2020. It also outlines the competition landscape, evaluates market chances and risks and anticipates future trends based on a series of influence factors.

- Ca. 230 pages analyzing the market
- Ca. 65 figure tables
- Ca. 280 fluoropolymer manufacturers profiled

With a multi-dimensional and in-depth view of the global fluoropolymer market, this report is ideal help for you with decisions about international market penetration, business expansion or project feasibility analysis.
Table of Contents

Volume I

1. Definition and segmentation

1.1 Definition, types and properties of fluoropolymers
1.2 Processing technologies
1.3 Applications and end uses
1.4 Review of fluoropolymer business

2. Macro-environment

2.1 Trends in the world economy
2.2 The chemical industry
2.3 Industry concentration
2.4 Laws and Regulations

3. Overview of fluoropolymer market

3.1 Market data
3.1.1 Fluoropolymer market by product category
3.1.2 Fluoropolymer market by application
3.1.3 Fluoropolymer market by region
3.1.4 Fluoropolymer market by type
3.2 Market trends and chances
3.3 Industrial Dynamics
3.4 Investment, M&A
3.5 Competition analysis
3.6 Fluoropolymer pricing trend

4. Market by Product

4.1 PTFE
4.1.1 Product, properties, uses and processing technology............................89
4.1.2 Market size and forecast..........................................................93
4.1.2.1 PTFE market by application..................................................95
4.1.2.2 PTFE market by region.........................................................96
4.1.3 Market trends and chances......................................................97
4.2 PVDF..........................................................100
4.2.1 Products, properties and uses..................................................100
4.2.2 Market size and forecast.........................................................102
4.2.2.1 PVDF market by application...............................................104
4.2.2.2 PVDF market by region......................................................105
4.2.3 Market trends and chances......................................................106
4.3 FEP..........................................................108
4.3.1 Products, properties and uses..................................................108
4.3.2 Market size and forecast.........................................................111
4.3.2.1 PTFE market by application...............................................113
4.3.2.2 PTFE market by region......................................................114
4.3.3 Market trends and chances......................................................115
4.4 PFA/MFA....................................................117
4.4.1 Products, properties and uses..................................................117
4.4.2 Market size and forecast.........................................................120
4.4.2.1 PFA/MFA by type..........................................................122
4.4.2.1 PTFE market by application...............................................123
4.4.2.2 PTFE market by region......................................................124
4.4.3 Market trends and chances......................................................125
4.5 ETFE..........................................................126
4.5.1 Products, properties and uses..................................................126
4.5.2 Market size and forecast.........................................................128
4.5.2.1 ETFE market by application..............................................130
4.5.2.2 ETFE market by region......................................................131
4.5.3 Market trends and chances......................................................132
4.6 ECTFE /PCTFE................................................134
4.6.1 Product, properties and uses..................................................134
4.6.2 Market size and forecast .................................................................136
4.6.2.1 ECTFE/PCTFE market by application........................................138
4.6.2.2 ECTFE/PCTFE market by region................................................139
4.6.3 Market trends and chances..........................................................140
4.7 PVF ..................................................................................................142
4.7.1 Product, properties and uses.........................................................142
4.7.2 Market size and forecast ...............................................................144
4.7.2.1 PVF market by application..........................................................146
4.7.3 Market trends and chances..........................................................147
4.8 THV Fluoroelastomer ......................................................................148
4.8.1 Product, properties and uses.........................................................148
4.8.2 Market size and forecast ...............................................................149
4.8.2.1 THV Fluoroelastomer market by application...............................150
4.8.2.2 THV Fluoroelastomer market by region....................................151
4.8.3 Market trends and chances..........................................................152

5. Market by end use ..............................................................................153
5.1 Petrochemical and chemical processing..........................................153
5.1.1 Market segmentation.................................................................153
5.1.2 Market size and forecast...............................................................156
5.1.2.1 Fluoropolymer demand in chemical processing by segment ....158
5.1.2.2 Fluoropolymer demand in chemical processing by application...159
5.1.2.3 Fluoropolymer demand in chemical processing by type...........160
5.1.2.4 Fluoropolymer demand in chemical processing by region.....161
5.2 E&E & telecommunication .............................................................162
5.2.1 Products and application..............................................................162
5.2.2 Market size and forecast...............................................................166
5.2.2.1 Fluoropolymer demand in E&E & telecommunication by segment.....168
5.2.2.2 Fluoropolymer demand in E&E & telecommunication by application.....169
5.2.2.3 Fluoropolymer demand in E&E & telecommunication by type..........170
5.2.2.4 Fluoropolymer demand in E&E & telecommunication by region...171
5.3 Automotive & transportation..........................................................172
Global Fluoropolymer Market

5.7.2.1 Fluoropolymer demand in Construction & architecture by segment.................................205
5.7.2.2 Fluoropolymer demand in Construction & architecture by type ...........................................206
5.7.2.3 Fluoropolymer demand Construction & architecture by region ..................................................207
5.8 Other applications.........................................................208

6 Market by region.................................................................209
6.1 Western Europe............................................................209
6.1.1 Market size and forecast...................................................209
6.1.1.1 Consumption of fluoropolymers in Western Europe by application........209
6.1.1.2 Consumption of fluoropolymers in Western Europe by type....................210
6.1.1.3 Consumption of fluoropolymers in Western Europe by country..............211
6.1.2 Market trends and chances.............................................212
6.2 North America...............................................................214
6.2.1 Market size and forecast...................................................214
6.1.1.1 Consumption of fluoropolymers in North America by application........214
6.1.1.2 Consumption of fluoropolymers in North America by type....................215
6.1.1.3 Consumption of fluoropolymers in North America by country..............216
6.2.2 Market trends and chances.............................................217
6.3 Asia Pacific.................................................................219
6.3.1 Market size and forecast...................................................219
6.1.1.1 Consumption of fluoropolymers in Asia Pacific by application........219
6.1.1.2 Consumption of fluoropolymers in Asia Pacific by type....................220
6.1.1.3 Consumption of fluoropolymers in Asia Pacific by country..............221
6.3.2 Market trends and chances.............................................222
6.4 Rest of World...............................................................225
6.4.1 Market size and forecast...................................................225
6.1.1.1 Consumption of fluoropolymers in Rest of World by application........225
6.1.1.2 Consumption of fluoropolymers in Rest of World by type....................226
6.1.1.3 Consumption of fluoropolymers in Rest of World by country..............227
6.4.2 Market trends and chances.................................................................228

Volume II
Company profiles (ca. 280).................................................................1-330

Note:
EUR 1 = US$1.4

Regions:
North America: US, Canada, Mexico (NAFTA region)
Asia Pacific: Countries of Asia, Australia, New Zealand
Asia Pacific*: Asia Pacific excluding Japan
4.1 PTFE

4.1.1 Product, properties, uses and processing technology

Products

Polytetrafluoroethylene (PTFE) is formed by The polymerization of tetrafluoroethylene (TFE). It is a fully fluorinated polymer available in various unmodified and modified grades. It is a fluorocarbon solid, as it is a high-molecular-weight compound consisting wholly of carbon and fluorine.

PTFE is sold in a granular or powder form, and then is either melted down and extruded or compression-molded into components or is combined with water or other solvent and sprayed on to a substrate, such as metal or fabric.

PTFE can be generally categorized into
- granular PTFE
- fine powder PTFE
- PTFE aqueous dispersions
- PTFE micropowder
- Modified PTFE

Granular PTFE resins are produced by polymerizing tetrafluoroethylene alone or with a trace of comonomers with initiator and sometimes in the presence of an alkaline buffer in aqueous suspension medium.

Fine powder PTFE is produced by polymerization of TFE in an aqueous medium in the presence of an initiator and surfactant.
### 5.6.2.3 Fluoropolymer demand in medical industry by region in US$ million

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<th>Region</th>
<th>2011</th>
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<td>204</td>
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<td>299</td>
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<td>Japan</td>
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<td>75</td>
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<td>Asia Pacific*</td>
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<td>38</td>
<td>40</td>
<td>46</td>
<td>56</td>
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<tr>
<td><strong>Total</strong></td>
<td>580</td>
<td>625</td>
<td>725</td>
<td>906</td>
<td>1,130</td>
<td>7.7%</td>
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</tbody>
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(Fluoropolymer demand in medical industry by region, 2011)

(Fluoropolymer demand in medical industry by region in US$ million)

(Vol. I P. 201)
Dongyue Group Ltd. (China)
Silicone Material Ind Park
Tangshan Town
256400 Zibo
China
Phone: +86 53 3851 0072
Fax: +86 53 3852 0204
http://www.dongyuechem.com

Year of Foundation: 1987
Number of Employees: 5,495
Revenue 2011: USD 1,613.5 million

Company profile

Dongyue Group Ltd. is a leading fluorinated material company in China. The company specializes in the manufacture, distribution, and sale of refrigerants, fluoropolymers, organic silicone, and other products.

The company’s product portfolio includes

- Refrigerant Series Products
- Fluoride fine chemical products
- Silicone Series
- Chloride Methy Chlorine&Alkali products
- Fluoride Salts & Acids

The main shareholders of Dongyue Group include International Finance Corporation (IFC), Baring Private Equity Asia III holding (9A) Ltd. and Macrolink Group.

... ...

(Vol. II P. 82)
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<td>☐ EUR 3390</td>
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<tr>
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<td></td>
<td></td>
<td>☐ EUR</td>
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