World Converted Flexible Packaging, a new study from The Freedonia Group, provides you with an in-depth analysis of the major trends in the world market for converted flexible packaging with forecasts by material and market -- critical information to help you with strategic planning.

This brochure gives you an indication of the scope, depth and value of Freedonia’s new study, World Converted Flexible Packaging. Ordering information is included on the back page of the brochure.

Brochure Table of Contents

Study Highlights ................................................................. 2
Study Table of Contents and List of Tables and Charts ............. 4
Sample Pages and Tables from:
  Market Environment ....................................................... 6
  World Overview .............................................................. 7
  Supply and Demand by Country & Region ......................... 8
  Market Share ................................................................. 9
  Company Profiles .......................................................... 10
  List of Companies Profiled ............................................ 11
Forecasting Methodology .................................................... 12
About the Company ......................................................... 13
Advantages of Freedonia Reports ....................................... 13
About Our Customers ...................................................... 14
Related Studies .............................................................. 15
Ordering Information ....................................................... 16
Study Highlights

- World demand for converted flexible packaging is forecast to advance 4.6 percent per annum through 2005, surpassing 14 million metric tons.

- Flexible packaging will continue to develop new applications while also supplanting rigid containers, supported by a favorable environmental profile, the expansion of key end markets (e.g., snack, pet and prepared foods, and pharmaceuticals), and improvements in barrier properties, aesthetics and convenience features.

- The best growth is expected in the world’s emerging markets, including developing Asia, Latin America, Eastern Europe, Africa and the Mideast.

- China will log some of the strongest gains, surpassing Japan as the world’s second largest converted flexible packaging user behind the US.

- Advances in the developed areas of North America, Western Europe, Japan and Australia will be more subdued, generally falling in the two-to-three percent per annum range (by volume).

- Following a recent flurry of merger and acquisition activity, six firms -- Sealed Air (US), Alcan (Canada), Amcor (Australia -- including the new Amcor Flexibles Europe), Bemis (US), Printpack (US) and Pechiney (France) -- supplied roughly one-fifth of global demand for converted flexible packaging in 2000.

* Data do not include any uncoated single web paper, film or foil that is neither preformed or printed. Also excluded are secondary and tertiary packaging (i.e., materials which are not in direct contact with food or other products or which do not function to contain, protect and store products for future consumption); retail, grocery, merchandise and novelty bags and sacks; refuse sacks; household and institutional rolls of waxed paper, film or foil; labels; and bulk packaging.
## Study Highlights

### World Converted Flexible Packaging Demand

(000 metric tons)

<table>
<thead>
<tr>
<th>Item</th>
<th>1995</th>
<th>2000</th>
<th>2005</th>
<th>2010</th>
<th>00/95</th>
<th>05/00</th>
</tr>
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<tbody>
<tr>
<td>World Population (mil)</td>
<td>5671</td>
<td>6058</td>
<td>6421</td>
<td>6783</td>
<td>1.3</td>
<td>1.2</td>
</tr>
<tr>
<td>kg CFP/capita</td>
<td>1.6</td>
<td>1.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>World Converted Flexible Pkg</td>
<td>9224</td>
<td>11400</td>
<td>14300</td>
<td>18300</td>
<td>4.3</td>
<td>4.6</td>
</tr>
<tr>
<td>North America:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>United States</td>
<td>3071</td>
<td>3500</td>
<td>3945</td>
<td>4450</td>
<td>2.6</td>
<td>2.4</td>
</tr>
<tr>
<td>Canada &amp; Mexico</td>
<td>377</td>
<td>460</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Europe</td>
<td>2412</td>
<td>2735</td>
<td>3100</td>
<td>3510</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>Asia/Pacific:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>China</td>
<td>492</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japan</td>
<td>1016</td>
<td>1165</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Asia/Pacific</td>
<td>1060</td>
<td>1480</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other World:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin America</td>
<td>486</td>
<td>649</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern Europe</td>
<td>356</td>
<td>460</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Africa/Mideast</td>
<td>331</td>
<td>411</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$/kg</td>
<td>3.00</td>
<td>3.36</td>
<td>3.74</td>
<td>4.16</td>
<td>2.3</td>
<td>2.2</td>
</tr>
<tr>
<td>Converted Flex Packaging (bil US$)</td>
<td>27.7</td>
<td>38.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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I. EXECUTIVE SUMMARY
   Summary Table ................................................... 3

II. ECONOMIC & MARKET ENVIRONMENT
   General .................................................................... 4
   World Economic Overview ..................................... 5
   Recent Economic Performance ............................ 5
   Macroeconomic Outlook ..................................... 8
   Table - World GDP by Region .............................. 9
   World Population Overview ................................ 9
   Table - World Population by Region .................... 11
   World Consumer Nondurables Trends ................. 12
   Food & Beverage .................................................. 12
   Table - World Food & Beverage Manufacturing Value-Added by Region .... 15
   Pharmaceuticals .................................................. 15
   Table - World Pharmaceutical Shipments by Region .................................. 16
   Cosmetics, Toiletries & Cleaning Preparations ... 17
   Table - World Cosmetic, Toiletry & Cleaning Preparation Shipments by Region & Type ... 20
   World Packaging Outlook ................................. 20
   Environmental & Regulatory Overview .............. 23
   Pricing Trends .................................................... 25
   International Trade ............................................. 26

III. MATERIALS & MARKETS
   Materials ............................................................... 28
   Table - World Converted Flexible Packaging Demand by Material .................................. 29
   Chart - World Converted Flexible Packaging Demand by Material, 2000 .......................... 30
   Polyethylene ...................................................... 30
   Polypropylene .................................................... 32
   PVC ................................................................. 34
   Polyester .......................................................... 35
   Other Plastics .................................................... 36
   Nylon ............................................................... 36
   Polystyrene ........................................................ 37
   Cellophane ........................................................ 38
   PVDC ............................................................... 38

For each country/region, the following are provided:

- Population
  - per capita GDP
- Gross Domestic Product (bil 98 US$)
- Food/Bev Mañg Val Added (bil 98 US$)

- kg CFP/capita
- kg CFP/000$ GDP
- kg CFP/000$ food & bev

- Converted Flexible Packaging Demand
  - By Materials:
    - Polyethylene
    - Polypropylene
    - Other Plastics
    - Paper & Foil
  - By Market:
    - Food
    - Nonfood

- $/kg
  - Converted Flexible Packaging (bil US$)
VII. ASIA/PACIFIC
   General ................................................................. 111
   Flexible Packaging Outlook ..................................... 112
   Chart - Asia/Pacific -- Converted Flexible Packaging Demand by Country, 2000 .......... 116
   Australia .................................................................. 116
   China ..................................................................... 120
   India ...................................................................... 125
   Japan ..................................................................... 131
   South Korea .......................................................... 136
   Taiwan .................................................................. 140
   Other Asia/Pacific ................................................... 143

VIII. OTHER WORLD
   General ................................................................. 148
   Latin America ........................................................ 150
   Chart - Other World -- Converted Flexible Packaging Demand by Country, 2000 .......... 150
   Flexible Packaging Outlook ..................................... 152
   Brazil ..................................................................... 154
   Other Latin America ............................................... 159
   Eastern Europe ........................................................ 164
   Flexible Packaging Outlook ..................................... 166
   Russia ................................................................... 167
   Other Eastern Europe ............................................. 174
   Africa/Mideast ........................................................ 179
   Flexible Packaging Outlook ..................................... 180
   Industry Structure .................................................. 182

IX. INDUSTRY STRUCTURE
   General ................................................................. 184
   Market Share .......................................................... 185
   Chart - World Converted Flexible Packaging Demand by Country, 2000 .............. 187
   Market Share, 2000 .................................................. 187
   Market Leaders ........................................................ 187
   Mergers & Acquisitions ............................................. 191
   Table - Selected Acquisitions & Divestitures ............................................. 194
   Cooperative Agreements ........................................... 198
   Table - Selected Cooperative Agreements ........................................ 199
   Research & Development .......................................... 200
   Marketing & Distribution ............................................ 202
   Company Profiles ..................................................... 203-274

World Converted Flexible Packaging #1512

Order form on last page
The Market Environment Section discusses key indicators that drive demand for converted flexible packaging, including demographic trends and environmental regulations, as well as Freedonia’s uniquely developed macroeconomic indicators.

This information provides you with an understanding and an analysis of the climate in which the global converted flexible packaging industry operates and helps you build your market strategy to sustain long-term growth.

Environmental & Regulatory Overview

Environmental and regulatory factors have emerged as important influences on the packaging material product mix over the past several decades in the developed world. These concerns have focused on the fact that disposable consumer packaging is a major contributor to the growing solid waste problem and on the presence of environmental contaminants such as volatile organic compounds (VOCs) in packaging raw materials such as inks, adhesives, and substrates (e.g., polyvinyl chloride). As a result, public demand has grown for packaging seen as “environmentally friendly.” This can include containers and materials which are ecologically harmless, recyclable, produced from recycled materials, reusable, downsized, or fabricated from natural/ nontoxic and renewable materials.

In response to consumers’ environmental concerns, a substantial recycling network has come into existence in many developed countries. At the same time, governments -- again mostly in the developed world -- have passed increasingly stringent packaging waste laws mandating that each major type of packaging meet minimum waste reduction requirements. In 1994, for example, the European Union passed the Directive on Packaging and Packaging Waste which set recycling and recovery targets for each packaging material (ranging between 25 and 65 percent) to be achieved by each member nation. The European Commission is expected to issue a revision of the recycling and recovery targets by the end of 2001. A similar law, the Recycling Act of Containers and Packages, took effect in Japan in 1997 and came into full force in 2000. While the United States has no comparable national recycling law, individual states like California have passed so-called “rates and dates” mandates. The US has implemented national air pollution regulations governing the presence of VOCs in certain packaging materials, as have other nations.

In the case of converted flexible packaging, environmental laws and related consumer preferences are having a direct impact on product mix and demand. For
The Materials and Markets Section highlights the key issues that have affected the global converted flexible packaging market over the past ten years and summarizes contributing growth factors.

This information helps you:

- Focus your sales and marketing efforts on high growth areas.
- Propose new areas for development

**Polypropylene**

World demand for polypropylene-based converted flexible packaging is projected to increase 7.7 percent per annum through 2005 to 3.6 million metric tons, or one-fourth of the global total. Polypropylene will enjoy faster demand growth than any other major flexible packaging substrate material. Growth will reflect rising consumption of convenience and snack foods throughout the world, as well as the resin’s favorable cost and performance characteristics. Polypropylene boasts excellent heat sealability, high moisture barrier qualities, good toughness, light weight, chemical and fatigue resistance, good colorability and excellent optical properties (low haze and high gloss).

Industry efforts will continue to focus on downgauging and the increased use of recyclable materials, trends which will favor the use of polypropylene at the expense of most other thermoplastics. The resin is also nontoxic and easily recyclable. As such, many new polypropylene applications, particularly in packaging, are coming at the expense of polystyrene and polyvinyl chloride, two resins that have been the subject of regulatory restrictions related to solid waste issues and potential toxicity. Gains also are arising from polypropylene’s competitive pricing structure, particularly its ability to mimic the properties of engineering resins at a significantly lower cost. Polypropylene also enjoys cost and performance advantages over polystyrene, polyethylene, cellophane and other commodity resins.

**World Converted Flexible Packaging Demand by Market**

(000 metric tons)

<table>
<thead>
<tr>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>World Population (mil persons)</td>
<td>5261</td>
<td>5671</td>
<td>6058</td>
<td>6421</td>
<td>6783</td>
</tr>
<tr>
<td>kg/capita</td>
<td>1.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>World Converted Flexible Packaging</td>
<td>7716</td>
<td>9285</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food</td>
<td>5857</td>
<td>7053</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonfood</td>
<td>1859</td>
<td>2172</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$/kg</td>
<td>2.63</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>World Converted Flex Pkg (bil US$)</td>
<td>20.3</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

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These Sections analyze demand trends and consider the threats and opportunities in 18 countries and 6 regions.

Brazil: Flexible Packaging Outlook

In 2000, Brazil consumed 330,000 metric tons of converted flexible packaging, over half of the Latin American total. The country is a more intensive user of flexible packaging than are many developing nations. Most Brazilian milk, for instance, is packaged in flexible pouches, and stand-up pouches have long been used to contain foods such as condiments, jams and jellies. Demand is projected to advance 8.3 percent annually through 2005 to over 490,000 metric tons, a modest acceleration from the already quite robust 1990s pace. Recovery of the macroeconomy -- and of the processed food and beverage industries in particular -- from the 1997-1999 downturn will be the primary growth factors.

As in most countries, plastics -- which already account for over 70 percent of total demand -- will continue to capture market share from paper and foil substrates. But the popularity of flexible packaging in Brazil is due more to the use of flexible plastics due to their lightweightness, lower cost and superior properties. Polyethylene will remain the most widely used material, based on its dominance of LDPE in milk packaging. Polypropylene (especially BOPP) will also enjoy healthy growth, with demand in converted flexible packaging applications logging double-digit gains throughout the new decade.

Gains will be concentrated in the bedrock food and drink markets, supported by rising incomes and greater interest in packaging as a marketing tool for consumer products. Efforts to improve health and sanitation conditions in the nation’s food industry will also fuel converted flexible packaging demand, as will ongoing technological innovations such as the late 1990s introduction of extended shelf life aseptic milk pouches.

Healthy growth is also expected in the pharmaceutical sector. As Brazil emerges from its economic difficulties, pharmaceutical demand in general will rise.

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</tr>
</thead>
<tbody>
<tr>
<td>Population (million persons)</td>
<td>123.5</td>
<td>125.4</td>
<td>126.6</td>
<td>126.9</td>
<td>126.5</td>
</tr>
<tr>
<td>per capita GDP</td>
<td>24570</td>
<td>25940</td>
<td>27420</td>
<td>29790</td>
<td>33480</td>
</tr>
<tr>
<td>Gross Domestic Product (bil 98 US$)</td>
<td>3034</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food/Bev Mfg Val Added (bil 98 US$)</td>
<td>83.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kg CFP/capita</td>
<td>7.5</td>
<td>8.1</td>
<td>9.2</td>
<td>10.4</td>
<td>12.1</td>
</tr>
<tr>
<td>kg CFP/000$ GDP</td>
<td>0.31</td>
<td>0.32</td>
<td>0.34</td>
<td>0.35</td>
<td>0.36</td>
</tr>
<tr>
<td>kg CFP/000$ food &amp; bev</td>
<td>11.2</td>
<td>11.3</td>
<td>11.5</td>
<td>11.8</td>
<td>12.0</td>
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<tr>
<td>Converted Flexible Packaging Demand</td>
<td>932</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

By Material:
- Polyethylene: 247
- Polypropylene: 255
- Other Plastics: 111
- Paper & Foil: 319

By Market:
- Food: 690
- Nonfood: 242

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Industry Structure

Gain a better global understanding of your competition and analyze your company’s position in the industry with information about:

- market share
- market leaders
- mergers & acquisitions
- cooperative agreements
- research & development
- marketing & distribution

INDUSTRY STRUCTURE

Research & Development

Research and development activity in converted flexible packaging focuses upon lowering production costs, improving strength and barrier properties, enhancing packaging aesthetics and graphic capabilities, and improving the environmental profile (e.g., through the use of recycled and/or recyclable content, downgauging). The plastic film segment will exhibit the greatest dynamism, with innovations continuing to play a key role in expanding market applications as improved processing techniques and materials (e.g., coextrusions and laminations) are developed. Further improvements in flexibility, permitting greater use in controlled and modified atmosphere packaging. Breathable films, consisting of polyester and polyethylene laminations, are ideal for packaging produce that deteriorates when chilled for long periods, like tomatoes, cucumbers and bananas.

New generations of polyolefin resins based on advanced Ziegler-Natta and metallocene catalysts are improving the performance of polyethylene and polypropylene films. Performance enhancements include better strength, clarity, heat sealing capabilities, high speed processability and barrier properties. High barrier liquid crystal polymer (LCP) films are also being investigated for potential applications in multilayer films in retort pouches and bag-in-box systems. Other developments include biaxially oriented polystyrene films which are heat sealable and permeable to vapors and gases for use in the packaging of products such as mushrooms.

In terms of aesthetics, firms like Printpack have invested heavily in new decorative techniques such as laser engraving, photopolymer and other pre-press processes, and innovative and improved processes for coating, laminating and metallizing. These new techniques have significantly reduced the length of

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The Profiles Section analyzes 44 companies active in the world converted flexible packaging industry. These profiles represent a sampling or cross-section of the types of companies involved in the industry.

Divisions, subsidiaries, joint ventures, etc., are discussed under appropriate parent companies.

Sources for profiles included:

- Information provided by key staff members in the respective companies
- Annual reports
- 10-K reports
- Security analysts reports
- Corporate product literature

Amcor Limited
679 Victoria Street
Abbotsford, Victoria 3067
Australia
613-9226-9000
http://www.amcor.com

Amcor is an international, integrated packaging and paper company which operates in four primary segments: Amcor Australasia, Amcor North America, Amcor Europe and Amcor Asia. In April 2000, Amcor spun off its Paper segment as PaperlinX, which comprises the paper production and distribution businesses of Amcor Printing Papers group and Amcor’s 42-percent stake in Spicers Paper Limited (Australia). In May 2001, Amcor announced an agreement to sell its 50-percent interest in Kimberly-Clark Australia (KCA) to Kimberly-Clark Incorporated. An initial five percent of KCA was divested in mid 2001 and the remaining 45 percent will be divested in parcels of ten percent through 2003.

The Company participates in the world converted flexible packaging industry through all four of its segments. The US$1.2 billion Amcor Australasia segment (Australia) makes flexible packaging products for the Australian and New Zealand markets primarily through the Amcor Flexibles Australasia and Amcor St. Regis Bates Australasia divisions, both of which are headquartered in Australia. In 2000, flexible and other plastic packaging accounted for 80 percent of the segment’s sales, and sacks and other nonmetal packaging accounted for US$44 million. Amcor Flexibles Australasia’s products include printed and unprinted monolayer and multilayer plastic films, laminations, and converted flexible packaging for consumer and industrial end uses. The division maintains eleven facilities in Australia and one in New Zealand. The Amcor St. Regis Bates Australasia division converts multiwall sacks for the food, chemical, mineral and other markets at seven facilities in Australia. In addition, the Amcor Metallising
Companies Profiled

AEP Industries Inc.
Fabbrica Italiana Articoli Plastici
Alcan Inc.
algroupp wheaton
Alusuisse Lonza Group Ltd.
charmettes
Lawson Mardon
margo
Alcoa Inc.
Baco Consumer Products
Itaipava
Presto Products Co.
Reynolds Metals Co.
Amcor Ltd.
Amcor Flexibles Europe A/S
Pechiney Zhongshan Packaging Co. Ltd.
Stevens Flexible Packaging
Bayer AG
Walothen GmbH
Wolff Walsrode AG
Bemis Co. Inc.
Curwood Inc.
Duralam Inc.
ITAP/Bemis
Perfeceal Inc.
British Polythene Industries plc
Bryce Corp.
Johnson Bryce Inc.
Simpro Inc.
Carvalal SA
Carpak SA
Flexa
Chemovit AS
Clondalkin Group plc
Fortune Plastics Inc.
Frievaart Holdings BV
Constantia-Verpackungen AG
H&N Packaging
Haendler & Natermann
Teich AG
Corimone CA SACA
Montana Grafica Convepal
CYDSA SA de CV
Intermex Inc.
Masterpak SA de CV
Dalian Shengdao Group Co. Ltd.
Tiancheng Packaging Material
Danisco A/S
Amcor Flexibles Europe A/S
Dixie Toga SA
E.ON AG
VAW Aluminum AG
VIAG AG

Empax Embalagens Ltd.
Exo-Tech Packaging LLC
Exopack
Framschach AG
Anger & Co.
Cofinec Group
Grupo Industrial Durango SA de CV
Durango-Georgia Paper Co.
Gilman Paper Co.
Hueck & Cie
Huhtamaki Oyj
Van Leer Flexibles Inc.
International Paper Co.
MADECO SA
Aluflex SA
Alufoil SA
ALUSA SA
Peruplast SA
Tech Pack SA
Nampak Ltd.
Nordenia International AG
Novacel SA de CV
Pactiv Corp.
Parksde Flexibles
Pechiney
Danaflex Plastic Packaging Inc.
Eurofoil
JPS Packaging Inc.
Soplariel
Pliant Corp.
Huntsman Packaging Corp.
Uniplast Holdings Inc.
Printpack Inc.
Independent Packaging LP
Rexam plc
Safepak Ltd.
San Miguel Corp.
Rightpak International
Sealed Air Corp.
Epsilon-Opti Films
Reflectix Inc.
Shanghai Zijiang Group Co. Ltd.
Smurfit-Stone Container Corp.
Sonoco Products Co.
Tobepal SA
Toybe
Toppan Printing Co. Ltd.
Wiluri Oy
Biaxis Oy Ltd.
Coveex Films Walsrode GmbH
Wipak Group
Wipak Group
Freedonia does not just collect and reprint data; Freedonia develops data. Our analysts thoroughly investigate an industry by extensively interviewing key industry participants and analyzing information from sources such as associations, government and trade literature. Once this research is complete, Freedonia establishes one set of forecasts. All writing, editing and forecasting is done in-house to assure quality and consistency. In cases where data does not exist, Freedonia develops the data based on input/output ratios, bills of materials and flow charts. The following chart summarizes Freedonia’s methodology.
The Freedonia Group, Inc. is a leading international industry study/database company.

Since 1985, Freedonia has published over 1,600 titles covering areas such as plastics, chemicals, coatings and adhesives, building materials, industrial components and equipment, health care, packaging, household goods, security, and many other industries.

Freedonia has produced a wide variety of titles, including:

- World Corrugated Boxes
- World Labels
- World Pharmaceutical Packaging
- World Adhesives

Because Freedonia is a reliable information source, our forecasts are cited in numerous publications such as The Wall Street Journal, Plastics News, The Financial Times and Packaging Digest.

In-house operations
Because all of our staff work at the same location, interaction between analysts and departments provides a strong system of checks and balances.

Consistency
Our Economics Group develops indicators that are used by all analysts. Therefore, every Freedonia study is based on a consistent set of economic assumptions (GDP, global population, world pharmaceutical shipments, etc.).

Reliable forecasts
Because all of our forecasts consider the environment in which a product or industry is operating, as well as threats and opportunities to the market, Freedonia forecasts are reliable indicators of future performance.

One-on-one interviews
All studies are produced by conducting interviews with key industry participants and end-users.

Proprietary electronic database
Freedonia’s analysts can tap into an extensive in-house electronic database containing corporate literature (including private company information), trade publications, government reports and many other sources of information.
About Our Customers

Freedonia’s clients include major US and international companies in the manufacturing, services, consulting and financial sectors.

Typical purchasers of Freedonia studies:

- Key Executives
- Corporate Planners
- Market Researchers
- Financial Analysts
- Information Centers
- New Product Developers
- Merger & Acquisition Specialists

Since 1985 we have provided research to customers ranging in size from global conglomerates to one person consulting firms. More than 90% of the industrial companies in the Fortune 500 use Freedonia research to help with their strategic planning.

Some of Freedonia’s customers in the converted flexible packaging industry include: Alcan Incorporated, Alcoa Incorporated, Amcor Limited, Bayer AG, Bemis Company Incorporated, Pechiney and Rexam plc.
Related Studies
From Freedonia

For more information about these or other Freedonia titles, please contact us at:
The Freedonia Group, Inc.
Phone: (440) 684-9600
(800) 927-5900
Fax: (440) 646-0484

Converted Flexible Packaging
The US market for converted flexible packaging will reach $14.5 billion in 2005. Advances will be stimulated by new developments such as breathable films for fresh cut produce and meats, reclosable stand-up pouches and microwaveable wraps. Plastic films will extend their lead with polyethylene and polypropylene offering the best prospects. This study analyzes the 6.7 billion pound US converted flexible packaging industry to 2005 and 2010 by type and market. It also evaluates market share and profiles key firms.
#1500. . . . . . . . 12/01. . . . . . . . . . $3,700

World Labels
World label shipments will grow 6.8% per annum through 2005. Gains will be fueled by expansion of packaged consumer goods markets such as specialty beverages, personal care products and medicinals. Also important will be the diffusion of bar coding and advanced inventory control throughout the developing world. This study analyzes the US$40 billion world label industry to 2005 and 2010 by material, technology, region and for 21 countries. It also evaluates market share and profiles key companies.
#1485. . . . . . . . 11/01. . . . . . . . . . $4,800

World Pharmaceutical Packaging
The world drug packaging market will grow 4% annually through 2005. Blister packaging and plastic pharmaceutical bottles will lead gains. The eight largest drug-making countries-US, Japan, Germany, France, China, UK, Italy and Switzerland-will account for over 80% of demand, with China growing the fastest. This study analyzes the US$15 billion world drug packaging industry to 2005 and 2010 by raw material, product, region and for 27 countries. It also details market share and profiles key firms.
#1467. . . . . . . . 9/01. . . . . . . . . . . $4,500

Sterile Packaging
US demand for sterile packaging will grow 5.4% annually to 2005. Stimulants include an aging population, more stringent infection control standards and the convenience of sterile packaging configurations. Blister packs and clamshells will grow the fastest, while thermoformed trays provide the best opportunities based on surgical and diagnostic test kits. This study analyzes the $1.3 billion US sterile packaging industry to 2005 and 2010 by product and market. It also evaluates market share and profiles key firms.
#1377. . . . . . . . 2/01. . . . . . . . . . $3,600

Paper Versus Plastic in Packaging
Demand for competitive paper and plastic packaging in the US will reach $86 billion pounds in 2004. Advances will be stimulated by steady growth in the foodservice sector and improvements in barrier properties and strength. Plastic will continue to encroach on paper’s market share. This study analyzes the 77 billion pound US competitive paper and plastic packaging industry to 2004 and 2009. It provides data and forecasts by material, type and end-use, presents market share data and profiles leading companies.
#1357. . . . . . . . 1/01. . . . . . . . . . $3,700

World Adhesives
Growth in global demand for adhesives will be driven by favorable activity in the paper and paperboard packaging industry. Total market value will continue to benefit from long term shifts away from commodity adhesives toward more environmentally benign formulations such as hot melts and emulsion polymers. This study analyzes the US $18.6 billion world adhesives industry to 2004 and 2009 by type, market, region and for 27 countries. It also profiles key adhesive suppliers and presents market share data.
#1335. . . . . . . . 12/00. . . . . . . . . . $4,600

Polypropylene
Demand for polypropylene in the US will grow over 6% annually, driven by a number of advantages and improvements. Packaging, fabrics, carpets and rugs, housewares and motor vehicles will remain the largest markets. Fastest growth is expected in medical goods, motor vehicles, toys and novelties, carpet and rug face fibers, nonwovens and housewares. This study analyzes the $4.9 billion US polypropylene industry to 2004 and 2009 by process and market. It also evaluates market shares and profiles key firms.
#1305. . . . . . . . 8/00. . . . . . . . . . . $3,500

World Pressure Sensitive Tapes
The world market for self-adhesive tapes will grow 6% annually. Tapes will capture a greater share of joining, sealing and bonding applications, as well as find use in novel applications. Packaging will remain the largest market, with polypropylene the most common backing material. This study analyzes the $14 billion world tape industry to 2004 and 2009 by material, type and region, and for 22 countries. It also evaluates market share and profiles key companies.
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