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Frozen Food Packaging

US Industry Study with Forecasts for **2013 & 2018**

Study #2594 | January 2010 | \$4700 | 257 pages

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INDUSTRY STRUCTURE

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Growth factors include the popularity of convenience-type foods among consumers and foodservice establishments, the prevalence of microwave ovens and advances in packaging technology.

US demand to climb 3.7% annually through 2013

Demand for frozen food packaging is projected to climb 3.7 percent per year to \$6.8 billion in 2013, driven by the popularity of convenience-type foods, both among consumers and foodservice establishments; the prevalence of microwave ovens; and technological advances in packaging. Demographic trends such as small household sizes, above-average growth in older age groups and high numbers of households where all adults work will stimulate demand for convenience foods, which tend to use more packaging relative to their volume. Revenue growth in the foodservice industry, which relies heavily on frozen foods, will also bode well for packaging. Additional factors supporting growth will include greater use of value-added components such as susceptors and the use of high-quality graphics for enhanced visual appeal and to convey a premium image.

Frozen specialties, meat, poultry and seafood uses to post fastest gains

Packaging for frozen specialties and for meat, poultry and seafood are expected to post the fastest gains among major frozen food applications. Demand for frozen specialties packaging is projected to expand 4.4 percent annually to \$2 billion in 2013, propelled by consumer demand for foods offering convenience and value along with quality improve-



ments resulting from packaging innovations. In addition, solid prospects for frozen dinner packaging will reflect the growing presence of items incorporating premium ingredients and those positioned as being healthier through reduced calories or the presence of whole-grain ingredients. Meat, poultry and seafood applications are forecast to increase 4.2 percent annually to \$2.3 billion in 2013, aided by increased production volume, the popularity of products that offer convenience in meal preparation, and the promotion of frozen meat, poultry and seafood as economical protein options. In addition, gains will be helped by continued high-volume requirements in the foodservice sector.

The ice cream, baked goods, and fruit and vegetable markets are expected to advance more slowly due to market maturity and/or limited production volume growth. Still, opportunities for packaging will be supported by shifting product mixes. For example, the growing popularity of single-serving and other small-sized baked goods and ice cream novelties targeted at smaller households or consumers desiring indulgent treats in portion control sizes will provide a growth niche for related packaging. Robust growth is anticipated for frozen vegetables using self-venting pouches, which enable steam cooking in their packaging and provide improved taste and texture.

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Sample Text, Table & Chart

APPLICATIONS

Packaging Demand

Demand for frozen meat, poultry and seafood packaging is projected to climb to \$3 billion in 2013. Growth will decelerate in the 1998-2008 period as material price increases and slower growth will be supported by expanded production and availability of convenient products and the demand for poultry and seafood. Economical protein and convenience activity among consumers will boost demand aimed at meeting household and institutional demands. In addition, gains will be driven by continued requirements in the foodservice sector. Favorable conditions for limited service restaurants will bode well for packaging sales as establishments rely heavily on frozen meat, poultry and seafood. Poultry, which accounted for 47 percent of frozen meat, poultry and seafood packaging demand in 2008, will remain the leading product type due to favorable production and consumption trends and the significance of shipments marketed in frozen form. Poultry applications will also outpace the overall frozen meat, poultry and seafood market through 2013.

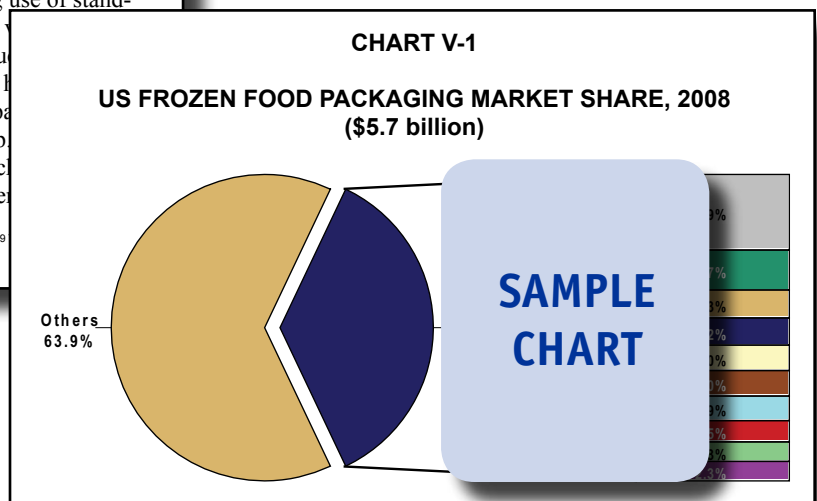
Boxes, wrap and bags are the leading packaging products for frozen meat, poultry and seafood, accounting for a combined 82 percent of demand in 2008. The remainder of demand is generated by pouches, trays and other products such as paper interleaving and plastic containers. Through 2013, pouches will experience the fastest growth among frozen meat, poultry and seafood packaging types, reflecting rising use of stand-up pouches at the expense of folding cartons. Additionally, demand will be helped by the growing popularity of larger-sized pouches in stores and supermarkets. Growth for bags will be based on the demand for value-added frozen products that typically are packaged in bags, such as poultry parts, meatballs, fish fillets and shrimp. The availability of frozen products designed to be cooked in their packaging also support gains for specialty bags that can go from freezer to

43

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TABLE III-17
FROZEN BAKED GOODS PACKAGING DEMAND BY TYPE
 (million dollars)

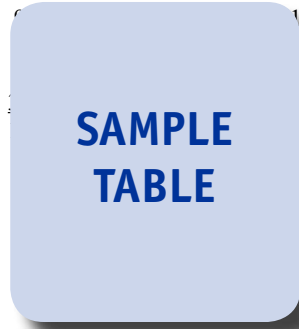
| Item | 1998 | 2003 | 2008 | 2013 | 2018 |
|---------------------------------------|------|------|------|------|------|
| Frozen Baked Goods Shipments (bil \$) | | | | | |
| \$ packaging/000\$ baked goods | | | | | |
| Frozen Baked Goods Packaging | | | | | |
| Boxes: | | | | | |
| Folding Cartons & Sleeves | | | | | |
| Corrugated | | | | | |
| Bags | | | | | |
| Plastic Containers | | | | | |
| Trays | | | | | |
| Aluminum Foil Containers | | | | | |
| Pouches | | | | | |
| Other | | | | | |
| % baked goods | | | | | |
| Total Frozen Food Packaging | | | | | |



Sample Profile, Table & Forecast

TABLE IV-1
FROZEN FOOD PACKAGING DEMAND BY TYPE
 (million dollars)

| Item | 1998 | 2003 | 2008 | 2013 | 2018 |
|------------------------------|------|------|------|------|------|
| Packaging Demand (bil \$) | | | | | |
| % frozen food | | | | | |
| Frozen Food Packaging Demand | | | | | |
| Boxes | | | | | |
| Bags | | | | | |
| Tubs & Cups | | | | | |
| Trays | | | | | |
| Wrap | | | | | |
| Pouches | | | | | |
| Other | | | | | |



COMPANY PROFILES

MeadWestvaco Corporation
 11013 West Broad Street
 Glen Allen, VA 23060
 804-327-5200
<http://www.meadwestvaco.com>

Sales: \$
 US Sales:
 Employe

SAMPLE PROFILE

Key Pro... al kraft paperboard

Me... packaging, coated and specialty... ts, and a variety of specialty... h six segments: Packaging Resources, Consumer Solutions, Consumer and Office Products, Specialty Chemicals, Community Development and Land Management, and Corporate and Other.

The Company is involved in the US frozen food packaging industry via the Packaging Resources segment, which had 2008 sales of \$2.3 billion. Through this segment, MeadWestvaco makes bleached paperboard, coated natural kraft (CNK) paperboard, linerboard, and converted packaging materials for beverage, dairy, produce, cosmetics, tobacco, pharmaceutical and health care products.

For frozen food packaging applications, the Company makes PRINTKOTE paperboard and CUSTOM KOTE CNK paperboard, both of which can be converted into cartons and other materials for packaging frozen entrees, pizza, seafood, novelty ice cream and other food products. PRINTKOTE paperboard products include standard varieties

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“Demand for trays in frozen food packaging is forecast to expand 4.5 percent annually to \$685 million in 2013, outpacing the overall frozen food packaging average. Gains will be helped by the ongoing popularity of frozen dinners, entrees and side dishes, sandwiches, and other frozen foods commonly packaged in trays. Heightened demand for such foods will be based on convenience for consumers with limited time for meal preparation, and demographic trends such as above-average growth of older age groups and increasing numbers of one- and two-person households. Preventing faster growth will be ...”
 --Section IV, pg. 135

OTHER STUDIES

Foodservice Packaging: Bulk & Portion Control

US foodservice packaging demand will climb 2.5% annually through 2014. Flexible packaging will outpace rigid based on cost, convenience and performance advantages. Restaurants other than quick service types will post the fastest growth within the dominant eating and drinking places market. This study analyzes the \$7 billion US foodservice packaging industry, with forecasts for 2014 and 2019 by product, application and end user. It also evaluates company market share and profiles industry players.

#2642 May 2010..... \$4800

Microwave Packaging

US microwave packaging demand will climb 7% annually through 2013, driven in part by demand for more convenient meals coupled with the prevalence of microwave ovens. Frozen foods will remain the top use while fresh prepared foods will lead gains. Foodservice containers and tubs, cups and bowls will be the fastest growing types. This study analyzes the \$1.7 billion US microwave packaging industry, with forecasts for 2013 and 2018 by application and product. It also evaluates company market share and profiles industry players.

#2572 12/2009..... \$4700

Converted Flexible Packaging

US converted flexible packaging demand will grow 3.4% yearly through 2013, supported by cost, performance and source-reduction advantages over most rigid packaging. Pouches will lead gains, including stand-up types as well as relatively newer products such as flat-bottomed, side-gusseted and stick types. This study analyzes the \$15.2 billion US converted flexible packaging industry, with forecasts for 2013 and 2018 by material, product and market. It also evaluates market share and profiles industry players.

#2558 10/2009..... \$4900

Meat, Poultry & Seafood Packaging

US demand for meat, poultry and seafood packaging is forecast to grow 3.5% yearly through 2013. Gains will be driven in part by the continuing shift to higher cost case-ready packaging by many retailers as a means to reduce in-store labor costs. Flexible packaging will outpace the larger rigid packaging segment. This study analyzes the \$7.7 billion US meat packaging industry, with forecasts for 2013 and 2018 by technology and raw material, product, application and market. It also evaluates market share and profiles industry players.

#2522 06/2009..... \$4700

Food Containers: Rigid & Flexible

US food container demand will reach \$25 billion in 2013. Unit expansion will be aided by the growing popularity of single-serving packaging in a widening range of applications. Plastic containers, and bags and pouches will see the fastest growth, often supplanting paperboard, metal and glass containers. This study analyzes the \$22 billion US rigid and flexible food container industry, with forecasts for 2013 and 2018 by type and market. It also evaluates company market share and profiles industry competitors.

#2492 05/2009..... \$4800

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