



Hottest
flexible
Packaging
& labeling
Opportunities

KEY
MARKETS &
FORMATS

Highlights ***of industry*** ***market studies***

Presented to:



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By

Huston Keith, Principal
KEYMARK
ASSOCIATES

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Industry Overview

- * Value-added three main markets
 - ◆ Two are food with 56% revenues
- * Labeling similar size to flexible packaging
 - ◆ Glue-applied & other often in flexible estimates

Value-Added Flexible Packaging	\$ billions 2004	Annual Growth
Perishable Foods	3.1	4%
Dry Foods	2.9	3%
Consumer/ Industrial	4.8	4%
Total	10.8	4%
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Labeling (TLMI)	\$ billions 2003	
Pressure sensitive	5.4	3%
Glue applied	4.6	-1%
Other (roll, shrink, in-mold)	0.7	8%
Total	10.7	2%
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Other Flexible Packaging	\$5 billion estimated	NA

Value-Added Flexible Packaging - What is it?

- ★ **Conforms to product shape**
 - ★ Films, foils and papers
 - ★ Bags and wraps
- ★ **Contains and protects product**
- ★ **Used in distribution and display**
 - ★ Up to final consumer
 - ★ For a period of at least a day

Not included in value-added flexible packaging (but often in industry estimates)

- ★ Merchandise bags
- ★ Trash bags
- ★ Consumer storage bags
- ★ Foodservice & deli wraps
- ★ Labels (glue-applied, roll or wraparound, shrink)

Sources

- ★ *Flexible Packaging Strategies 2002*
- ★ *Oxygen Absorbers: Hit or Hype?*
- ★ *Case Ready Meat Packaging 2001-2005*
- ★ *Opportunities for Shrink Labels in Bottles*
- ★ *Opportunities for Shrink & Stretch Labels 2009*
- ★ *Retort Pouches and Trays 2009*

Market Segments

- ★ **Perishable Foods**
 - * Requires refrigeration, freezing or retorting to preserve
- ★ **Dry Foods**
 - * Shelf stable, maintain very low moisture, low MVTR films
- ★ **Consumer/Industrial**
 - * Few value-added films

The Hottest Markets

- ★ Case-ready red meat
- ★ Retort pouches
- ★ Shrink labels
- ★ Pizza
- ★ Electronics & computers
- ★ Medical packaging
- ★ Agricultural chemicals
- ★ Foodservice pouches
- ★ Stand-up pouches

Case ready meats

- ★ Package fresh meat at packer v. retail store
- ★ Benefits
 - ★ Reduced labor and other in-store costs
 - ★ More sanitary meat packaging practices
 - ★ Reduced spoilage loss (shrink)
 - ★ Better inventory control (reduced out-of-stocks)
 - ★ More efficient production

Case ready meats

- ★ **Potential 9 billion retail packages**
 - ★ 780 MM in 1997; 2,600 MM in 2004
 - ★ \$123.5MM flexible sales, 19% growth
 - ★ Wal-Mart, food safety major drivers
 - ★ Keeping product in case important
- ★ **Many materials used**
 - ★ Clear antifog barrier lidding materials
 - ★ Laminates to rigid substrates such as PS foam
 - ★ Masterpack bags
 - ★ High barrier shrink films
 - ★ High abuse shrink films

Case ready meats

★ What's holding it up?

- ★ Retailers use meat department to differentiate themselves
- ★ Cost savings difficult to verify
- ★ Investments equipment required of processors
- ★ Labor concerns over job losses
- ★ Consumers associate backroom cutting with freshness
- ★ Longer shelf-life packages look different
- ★ Adversarial packer-retailer relations

Retort pouches

- ★ **Nearly 2 billion sold in US/Canada**
 - ★ **Pet foods leading - Whiskas, Pedigree...**
 - ★ **Tuna next - imported product**
 - ★ **Entrees, rice fast-growing**
 - ★ **\$110.4 MM sales, 18% growth**
- ★ **Flexible structures**
 - ★ **Mostly PP/Foil/BON/PET**
 - ★ **AlOx or SiOx for clear**



Shrink labels

- ★ **Merchandising impact**
 - ★ Full container coverage
 - ★ Emphasizes unique shape
 - ★ Drives growth in single-serve milk
 - ★ Popular for tea, coffee, creamers, water, snacks, sauces, yogurt, sports drinks
- ★ **\$335.8 MM sales, 12% growth**



Shrink label materials

- ★ **Monolayer or laminated reverse-printed films**
 - ★ **Polyvinyl chloride (PVC) dominant**
 - ★ **Polyethylene terephthalate glycol (PETG) & other copolyesters highest shrink**
 - ★ **Oriented polypropylene (OPP) wraparound**
 - ★ **Oriented polystyrene (OPS) or styrene-butadiene copolymer (SBC) emerging rapidly**

Pizza

- ★ **Frozen or refrigerated**
 - ★ Rising crust renews popularity
 - ★ Oxygen barrier to prevent off-flavors
 - ★ DiGiorno (Kraft), Freschetta, and others
 - ★ \$210.1 flexible sales, 10% growth
- ★ **Flexible structures**
 - ★ Mostly LLDPE or PVC shrink
 - ★ Rising crust Nylon/EVOH/PE

Electronics & Computers

- ★ Systems and components
- ★ Rapid industry growth
- ★ Vulnerable to offshore
- ★ Packaging widely varied
 - ★ Antistatic films
 - ★ Oxygen barrier
 - ★ Cushioning (air cellular)
 - ★ Dust cover
- ★ \$67.3MM sales, 10% growth

Medical & pharmaceutical

- ★ **Strong unit growth next two decades**
 - ★ Aging of baby boomers
 - ★ Increasing life expectancies
- ★ **Aggressive cost containment measures**
 - ★ Identify costs for reimbursements
 - ★ Reduce expensive labor costs
 - ◆ Pre-packed surgical kits save time to assemble
 - ◆ Pouches often used
 - ★ Replace rigid trays
- ★ **\$1,351.7 sales, 7% growth**

Medical & pharmaceutical

- ★ Requirements varied (FDA & sterilizability)
- ★ Very diverse materials
 - ★ Polyethylene film
 - ★ Coated papers
 - ★ Coextrusions
 - ★ Spun bonded polyolefins
- ★ New products will need packaging
 - ★ Innovation from growth and cost reduction
 - ★ Flexibles package of choice

Foodservice pouches

★ Key drivers

- ★ Overall economic growth**
- ★ Restaurants increase share of the food dollar**
- ★ Labor shortages → offsite preparation**
- ★ Conversions from higher cost #10 cans**
- ★ Efficient supply of “meal solutions”**

Foodservice pouches

- ★ **High or moderate barrier materials**
 - ★ **Coextrusions: barrier (EVOH, PVdC or nylon) with sealant**
 - ★ **Laminations metallized PET or nylon with sealant**
- ★ **Pouch fillers or vertical form-fill-seal machines**
- ★ **\$415.9MM flexible sales, 6% growth**

Agricultural chemicals

★ **Bulk commodity-type packaging**

★ **Flexible**

- ◆ **Multiwall paper bags and plastic bags**
- ◆ **Flexible intermediate bulk containers (FIBCs)**
- ◆ **Bulk container liners**

★ **Rigid**

- ◆ **Corrugated (“gaylords”)**
- ◆ **Metal & plastic drums, pails, bottles and cans**

★ **Single use, multiple use or permanent**

★ **Products often need more protection**

★ **Small endusers use less than bulk**

★ **Bulk containers insufficient product protection**

Agricultural chemicals

- ★ **Endusers/suppliers unfamiliar with packaging**
 - ★ **Foil liner to protect from oxidation or flavor loss**
 - ★ **Metallized or coextruded barrier film cost less**
 - ★ **Growth in barrier as packagers learn benefits**
 - ◆ **Nylon/PE for aroma/chemical barriers for lawn/garden chemicals**
 - ◆ **Reclosable standup pouches for pesticides, potting soil and rock salt**
- ★ **\$483.3MM flexible sales 5% growth**

Stand-up pouches

- ★ **Package of choice for pet treats**
 - ★ Convenient reclosable zippers
 - ★ Superior graphics
 - ★ Significantly less costly than carton
 - ★ Smaller dry food has converted
- ★ **Other surprising markets**
 - ★ Lawn & garden chemicals, potting soil & rock salt
 - ★ Baking mixes
- ★ **\$516.5MM sales, growth 6%**

Many other growth segments

- ★ Coffee, especially gourmet
- ★ Fresh produce films
- ★ Oxygen-absorbing films
- ★ Deli meats & cheeses
- ★ Clear film labels

Summary

- ★ **Grow faster than economy**
 - ★ Protecting broad range of products (staples)
 - ★ Beneficiary of cost reduction
 - ★ Rarely eliminated/replaced by other packaging
 - ★ Opportunity: **ADDING VALUE**



The Key to Targeting New Markets

