

# Stand-up Pouches 2015 to 2019

## Section I:

### Introduction

- A. Stand-up pouch
- B. Study organization
- C. Geographic regions
- D. Methodology and organization
- E.. Conventions

## Section II:

### Executive Summary

- A. Market forces
  - 1. Innovation
  - 2. Economics
  - 3. Environmental impact
  - 4. Consumer trends
  - 5. Competition
  - 6. Infrastructure
- B. Market projection
  - 1. Volume segmented by application
  - 2. Global volume segmented by end-use category
  - 3. Global value segmented by end-use category
  - 4. Global volume by geographic region
  - 5. Global volume by reclosable zipper use
  - 6. Global volume by fitment use
- C. Summary

## Section III:

### Pouch Construction

- A. Stand-up pouch designs
  - 1. *Doyen*-style pouch
  - 2. *BlenderPak* pouch
  - 3. *Grower's Cup* pouch system
  - 4. *Poucher* pouch
  - 5. *CornerZip* pouch
  - 6. Double *Doyen* pouch
  - 7. Non-*Doyen* pouches with top and bottom gussets
  - 8. True flat-bottom pouches

- 9. *SIP* pouch
- 10. Pouch standing on fitment
- B. Partially stable bags and pouches
  - 1. Side-gusseted pouch
  - 2. Four-corner-seal pouch
  - 3. *Cheer Pack* pouch
  - 4. *PrimaPak* pouch
  - 5. *Edge Stand* pouch
  - 6. W-bottom or plow bottom pouch
- C. Standard pouches and bag designs (not stable)
  - 1. Three-side-seal pouch
  - 2. Four-side-seal pouch
  - 3. Center-seal pouch
  - 4. Pillow pouch
  - 5. End-seal bag
  - 6. Side-seal bag
  - 7. Center-seal bag
  - 8. Pillow bag
- D. Implications for stand-up pouches
- E. Competitive rigid packaging concepts
  - 1. Retort carton
  - 2. Paper-based cans
  - 3. Aluminum bottle
  - 4. *TULC* can and *aTULC* can
  - 5. Implications for stand-up pouches
- F. Spouts
  - 1. Base design
  - 2. Spout position
  - 3. Spout cost
  - 4. No spill spouts
  - 5. Tamper-evident spouts
  - 6. Flexible spouts
  - 7. Concepts to eliminate spout inserting
  - 8. Specialty
  - 9. One-piece spouts
  - 10. Capped spout
  - 11. Anti-choking closures
  - 12. Dispensing closures
  - 13. Spout summary
- G. Reclosable zippers
  - 1. Zipper styles

2. Zipper application
  3. Zipper technology
  4. Zipper summary
  5. Zipper alternatives
- H. Vents
1. Vented pouches with rigid vents
  2. Vented pouches with flexible vents
- I. Shapes
- J. Unique and emerging technologies
1. *PresSURE-Lok* metered dosage system
  2. *Cartridge Pack* system
  3. Pouches for carbonated products
  4. *Smart Bottle* pouch
  5. Chambered pouches
- K. Films and laminates
1. Universal requirements
  2. Emerging structures
  3. Special techniques
  4. Pouch suppliers

## **Section IV:**

### **Equipment Technology**

- A. Fabricating pre-formed pouches
- B. Pre-formed pouch equipment
1. Dedicated pouch machines
  2. Pouch machine suppliers
- C. Filling stand-up pouches
1. Two-step process – filling pouches
  2. One-step process
  3. One-step process – vertical
- D. Filling technology developments
1. Fill/seal
  2. Form/fill/seal equipment
  3. Hybrid machines
  4. Ultrasonic sealing equipment
  5. Rotary versus straight-line
  6. Dispensers
  7. Filler suppliers
  8. Inserting fitments
  9. Pouch handling

E.. Food processing techniques

## **Section V:**

### **Economics and Environmental**

- A. Case 1: Stand-up pouch cost (baby food)
  - 1. Assumptions
  - 2. Manufacturing cost results
- B. Case 2: Polymer tray cost (baby food)
  - 1. Assumptions
  - 2. Manufacturing cost results
- C. Case 3: Glass jar cost (baby food)
  - 1. Assumptions
  - 2. Manufacturing cost results
- D. Case 4: Comparison of Case 1, Case 2, and Case 3
  - 1. Variable material cost
  - 2. Variable labor cost
  - 3. Variable energy cost
  - 4. Shipping cost
  - 5. Fixed costs
  - 6. Total cost
- E.. Case 5: Stand-up pouch LCA
  - 1. Energy consumption
  - 2. Greenhouse gas releases
  - 3. Water consumption
  - 4. End of life
- F. Case 6: Polymer Tray LCA
  - 1. Energy consumption
  - 2. Greenhouse gas releases
  - 3. Water consumption
  - 4. End of life
- G. Case 7: Glass Jar LCA (baby food)
  - 1. Energy consumption
  - 2. Greenhouse gas releases
  - 3. Water consumption
  - 4. End of life
- H. Case 8: Comparison of Case 5, Case 6, and Case 7
  - 1. Energy
  - 2. Greenhouse gas releases
  - 3. Water consumption
  - 4. End of life

- I. Case 9: Economic and Environmental Summary
  1. Results per unit
  2. Results per product volume

## **Section VI:**

### **Market Analysis**

- A. Drivers and trends
  1. Innovation
  2. Economics
  3. Environmental impact
  4. Consumer trends
  5. Competition
  6. Infrastructure
- B. Global volume by end-use category
- C. Value by end-use category
- D. Volume for solid food by end-use
  1. Applesauce
  2. Baby food
  3. Confectionery
  4. Dairy
  5. Dried food
  6. Dry mixes
  7. Frozen food
  8. Prepared drinks
  9. Retorted food
  10. Snacks
  11. Other
- E.. Value for solid food by end-use
- F. Volume for liquid food by end-use
  1. Alcoholic drinks
  2. Aseptically packaged liquid food
  3. Fruit-flavored drinks
  4. Sports and energy drinks
  5. Other
- G. Value for liquid food by end-use
- H. Volume for pet food by end-use
  1. Dry pet food
  2. Moist pet food
  3. Pet treats
- I. Value for pet food by end-use

- J. Volume for non-food by end-use
  - 1. Agri-chem (agricultural chemicals)
  - 2. Detergents
  - 3. Health and beauty
  - 4. Motor lubricants
  - 5. Other
- K. Value for non-food by end-use
- L.. Volume by geographic region
- M. Value by geographic region
- N. Volume in Asia by end-use
  - 1. Food
  - 2. Liquid food
  - 3. Pet food
  - 4. Non-food
- O. Volume in China by end-use
  - 1. Food
  - 2. Liquid food
  - 3. Pet food
  - 4. Non-food
- P. Volume in Europe by end-use
  - 1. Food
  - 2. Liquid food
  - 3. Pet food
  - 4. Non-food
- Q. Volume in Japan by end-use
  - 1. Food
  - 2. Liquid food
  - 3. Pet food
  - 4. Non-food
- R. Volume in North America by end-use
  - 1. Food
  - 2. Liquid food
  - 3. Pet food
  - 4. Non-food
- S. Volume in ROW by end-use
  - 1. Food
  - 2. Liquid food
  - 3. Pet food
  - 4. Non-food
- T. Volume for retorted stand-up pouches

- U. Volume by pouch design
- V. Volume for reclosable zippers by end-use
- W. Volume for fitments by end-use
- X. Volume by method of manufacture
- Y. Foodservice

**Section VII:**  
**Equipment Supplier Profiles**

**Section VIII:**  
**Producer Profiles**

**Section IX:**  
**Glossary**