



## Technology 48: Corner Open Zipper Pack



The innovation is a change to traditional re-sealable zipper opening packaging that places a short zipper diagonally across the corner of a package. The design makes it easier to store, pour and re-seal powdered or granular products, dry foods and pet foods. It is a design modification of the original Ziploc storage bags developed by Dow Chemical and now produced by S. C. Johnson.

- Offers a more controlled delivery of the contents.
- Reduces packaging costs slightly—re-sealable zipper material used is about 1/3<sup>rd</sup> that of top opening packages.
- Diagonal zip seal can be made with varying widths and seal strengths.
- Option to integrate a handle into top of bag. Ideal for heavy or large items such as pet food, rice, laundry detergent, fertilizer, etc. Not possible with top opening zip bags.
- Bags may be colored and printed during manufacturing process as per customer art.
- Offered in a variety of sizes, materials and thicknesses including:
  - Nylon Film – used as a vacuum sealed film due to its lower air penetration rate. Seal strength makes it ideal for heavier items. Offers protection in heated environments.
  - Polyethylene film – Most commonly used material, higher air penetration rate, half the cost of nylon film.
  - Polypropylene film – Used primarily in the confectionary industry, light weight, low strength, not tolerant of heat exposure.
  - Retort film – Special purpose applications requiring sterilization. Can withstand 120C.
- Patented process and manufacturing equipment also available for licensing.

### Development Status:

Thirty-two clients in Korea. Domino Sugar recently ordered 400,000 packages.

### IP Status:

- Four Korean patents and similar patent covering ten European countries.
- Filed and amended patent request in the U.S.
- Filed in Japan, China, India, Vietnam, and Indonesia. Waiting for official registrations.

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