THE WORLD’S LEADING BRANDS USE KORTEC CO-INJECTION TECHNOLOGY
KORTEC CO-INJECTION MULTI-LAYER TECHNOLOGY

Creates opportunity for molders to open up complimentary markets by expanding their production capabilities.

By injecting material into a components mid-layer, you now have the ability to enhance product protection and package design, bringing new alternatives and value to your customers.

KORTEC Co-injection Technology is proven to deliver high performance molding capabilities including precise barrier placement, uniform distribution, customizable barrier properties and economical use of barrier materials.

INNOVATIVE OPPORTUNITIES

Multi-Layer Technology for a variety of packaging applications. Coffee/Tea Pods, Food/Fruits, Beverages, Closures, Dairy, Medical, Personal Care, Technical

MULTI-LAYER REQUIREMENTS VARY BY APPLICATION

Enhance package performance properties for specific applications by adding one or more barrier materials to the preform’s mid-layer.

MULTI-LAYER BENEFITS

Extending Shelf Life

A concentrated, more effective protective barrier layer of additive positioned in the center of the preform’s mid-layer extends shelf life by up to 5x compared to conventional Mono-layer blended options.

MORE EFFICIENT USE OF MATERIAL

As an industry leader, KORTEC recognizes the importance of introducing more economical capabilities without sacrificing product protection to ensure our customers maintain a competitive edge. Precision layer placement and high-capability barrier materials allows molders to reduce their barrier material usage by up to 50% than conventional barrier technologies.

In addition, co-injection allows molders to recapture lost profits through the potential to use up to 30% recycled core re-grind material (for the mid-layer) and eliminate scrap (thermoforming).

MORE ECONOMICAL ALTERNATIVE MATERIALS

As transportation and handling costs increase over time, product weight continues to be an area where opportunities exist to save on costs. More than ever before brands are moving away from traditional heavy and fragile glass containers in favour of lighter and more economical plastic alternatives. Metal cans are also falling out of favour due to their rising material costs.

DESIGN FREEDOM FOR MAXIMUM SHELF APPEAL

KORTEC Co-injection Technology provides increased design freedom and flexibility to create packaging with more innovation than ever before. Stand out on store shelves more than ever by integrating various colors, sizes, shapes and unique decorative capabilities.
**JUICES, TEAS AND SAUCES**

Preserving freshness with high performing packages.

To maintain freshness juice, tea and sauce packaging must prevent O₂ ingress.

Kortec Co-injection multi-layer barrier technology provides an improved, cost-effective O₂ barrier solution.

Kortec Co-injection multi-layer barrier technology provides a more effective O₂ barrier.

**CARBONATED SOFT DRINKS**

Globalization requires increased shelf life performance.

To maintain freshness carbonated soft drink packaging must prevent CO₂ loss.

Kortec Co-injection multi-layer barrier technology provides an improved, cost-effective CO₂ barrier solution.

Kortec Co-injection multi-layer barrier technology provides a more effective barrier to CO₂ loss.

**LIQUID DAIRY**

There is a tremendous opportunity to package liquid dairy products in PET.

To maintain freshness, liquid dairy products need complete barrier light.

**Expanding Multi-Layer Technology Solutions for Your Products Now and in the Future.**

Mono-layer O₂ scavenger blend

Multi-layer co-injection

Mono-layer

Mono-layer blend

Multi-layer co-injection

PET skin, inner black core

PET with multi-layer barrier technology

To deliver a package that can preserve the freshness, flavor and nutrients of milk for months.
PET PREFORMS AND CLOSURES

Kortec Co-injection multi-layer barrier technology can precisely dose and distribute the barrier material.

Multi-Layer Technology precisely positions barrier material exactly where it is needed. An advanced melt delivery system delivers unrivaled balance, allowing flexibility to vary the barrier layer position and fully encapsulate the dome using the same hardware.

MOLD HIGHER QUALITY, ECONOMICAL CO-INJECTED PARTS FOR LESS

Kortec Co-injection multi-layer barrier technology can precisely dose and distribute the barrier material.

PATENTED BARRIER CAPABILITIES

KORTEC holds many of the patents required to deliver the barrier performance your application demands. Only KORTEC can prevent core layer breakthrough by compensating for molding variables and directing flow to assure full barrier coverage of containers, even those with non-symmetrical shapes and designs, to meet target barrier performance standards.

Mold Masters®

Accurate barrier position enables excellent leading edge position control.

Full encapsulated dome provides complete package protection.

The proven KORTEC CONNECT Co-Injection Solution includes everything you need to easily and economically convert your existing single shot injection molding equipment over to produce co-injected parts. Reduce your capital investment requirements by up to 84%. KORTEC co-injection technology is fully customizable to create a moisture, gas or light barrier for containers of all shapes and sizes for applications across any industry. Take advantage of our extensive experience and successful track record. Mold with confidence knowing our global support network is with you every step of the way.

Kortec Connect includes:
> Co-Injection Hot Half
> E-Multi Co-Injection Auxiliary Injection Unit
> E-Multi Controller w 15” Touch Screen
> Engineering
> Testing Validation
> Start-up Support
> Training
Goes Together Like...

Milacron Kortec Co-injection

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