



ATTACHED TO YOUR WORLD

# Seal, Reseal & Coating

SMART ADHESIVES SOLUTIONS FOR CIRCULAR PACKAGING





# Bostik: a global leader in adhesive technologies



## EXPERT IN SEAL, RESEAL & COATING ADHESIVE SOLUTIONS

We develop seal, reseal, and coating solutions by anticipating market needs and regulatory changes. We offer a wide range of solutions that enable circular packaging and protect customer health. With the support of our global technical experts, we collaborate closely with our clients to help them in accomplishing their goals.

“

At Bostik, we are profoundly convinced that adhesives have an essential role to play to help build a more sustainable world.

”

## An ambition to rank among the top CSR performers

Bostik, the adhesive solutions of Arkema group, works to provide its clients with sustainable and cutting-edge solutions that support the Sustainable Development Goals (SDGs) of the United Nations. Bostik’s targets towards climate plan, waste & VOC reduction are the following ones:

-46%

### CLIMATE PLAN

Of the new group’s GHG emissions reduction target from 2020 to 2030.

-25%

### ZERO WASTE PROGRAM

From 2020 to 2025

-1/3

### VOC REDUCTION

From 2020 to 2025

## PRACTICAL ADHESIVE SOLUTIONS FOR MORE SUSTAINABLE PACKAGING DESIGN



### REDUCE FOOD WASTE

Foods in reclosable packaging designed with Bostik’s resealable solutions such as M-Resin™, Cold Seal or Acrylic PSA extend food freshness and maintain nutritional value.



### ENABLE RECYCLING

Bostik offers resins for mono-material packaging that are approved by third-party organization for recycling compatibility in PE, PET, or PP streams.



### REDUCE PLASTIC

Bostik provides adhesive solutions that allow for a 30% reduction in plastic consumption.



# Vitel®

## SOLUTIONS FOR FLEXIBLE PACKAGING SEALING & COATING

Vitel® are Bostik's saturated copolyester resins suitable for flexible packaging sealing & coatings. Features such as high molecular weight, softening point, glass transition temperature, crystallinity, chemical resistance, flexibility and hardness balance can be tailored to meet specific customer requirements.



### VITEL® COPOLYESTER APPLICATIONS:

- Heat-Seal layers are applied using **in-line** extrusion or as a lacquer using **off-line** coating. A wide variety of lidding films can be customized to enable strong welding or customized peelable strength. This enhances consumer convenience without compromising food safety and packaging integrity.
- Raw material in various packaging applications (overprint varnish, interlayer adhesion...) but also as an additive to improve printability (primer, pre-print primer, ink binder), flexibility, hardness and chemical resistance (can coatings).



## HIGH PERFORMANCE ON VARIOUS SUBSTRATES

- Biaxially oriented polyester films (BOPET)
- Paper
- PLA (polylactic acid)
- Treated polyolefin (LDPE, BOPP)
- Metals (Aluminum, Copper, SS)
- Nylons/BOPA
- Cellulose acetate

## SOLUTIONS FOR A WIDE VARIETY OF PACKAGING DESIGNS



RECYCLABLE  
PET TRAY



PEELABLE  
OVENABLE LID



ANTI-FOG PEELABLE LID  
FOR REFRIGERATED FOOD



COATINGS &  
FORMULATED INKS



BPA-FREE CAN  
COATING

### ADD VALUE TO YOUR PACKAGING WITH VITEL® COPOLYESTER:

- Better food preservation while maintaining food safety
- Convenient packaging for better consumer experience
- No harmful substances to guarantee safety (BPA-free, Glymo-free, Phthalate-free, Vinyl-free)
- Stable ink dispersion to ensure optimal printability
- Compatible with refrigerated and frozen food applications
- Fast packaging throughput
- Mono-material packaging compatibility to enhance recyclability and sustainability
- Transparency to design clear and attractive packaging

## RECYCLABILITY ASSESSMENT

“The PLASTIC SENSE FOUNDATION certifies that **Vitel**® comply with the Recyclability Guidelines for Thermoformed PET Trays.”





# Heat Seal Lacquers

## SMART ADHESIVES FOR HIGH PERFORMANCE HEAT SEAL

As flexible lidding becomes a new standard for many food packaging applications, it's important to use high-performing, heat seal coatings that meet high specifications for both food packers and consumers. Bostik heat seal lacquers are formulated for general purpose and various specialty applications.



### REDUCE COMPLEXITY

- Reduced SKU needs to achieve both a bond and transparency, low blocking, shortened dwell time, and no refrigeration needed in storage
- Sealing onto a variety of PET substrates (CPET, APET) with high PCR content
- Cost efficiency: low cost by square meter for big size pouches

### SUITABLE FOR FOOD PACKAGING

- Strong sealing through contamination
- Excellent cold peel
- Substance of concern free
- Keeps your items fresher, longer while providing a tamper-evident seal
- Regulatory compliance with direct and indirect food contact

### PACKAGING PERFORMANCE

- Increase package integrity with ideal seal strength and ability to achieve a smooth & peelable seal
- High package security
- Easily peelable for enhanced consumer experience



## INDUSTRY KNOWLEDGE, APPLICATION EXPERTISE

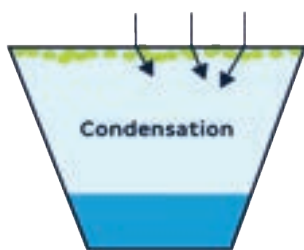
### VITEL® HEAT SEAL COATING FOR OVENABLE LIDDING FILM

Vitel® heat seal resins for ovenable lidding film allow the CPET tray to be placed in a microwave or conventional oven. At the same time, Vitel® withstand low refrigeration and/or freezing temperatures.

### 2-IN-1 VITEL® COATING ELIMINATES THE NEED FOR ADDED, EXTERNAL ANTI-FOG COATINGS

Vitel® heat seal resins are designed with anti-fog functionality which brings added benefit to lidding films. Lidding films can be heat sealed to APET and r-PET trays and used for packaging fresh soft fruit, cut fruits and salads, raw poultry and fish food trays, all requiring anti-fog functionality.

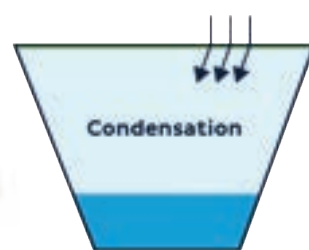
#### NO ANTI-FOG COATING



Microwave droplets create scattering and haze.



#### BOSTIK ANTI-FOG COATING

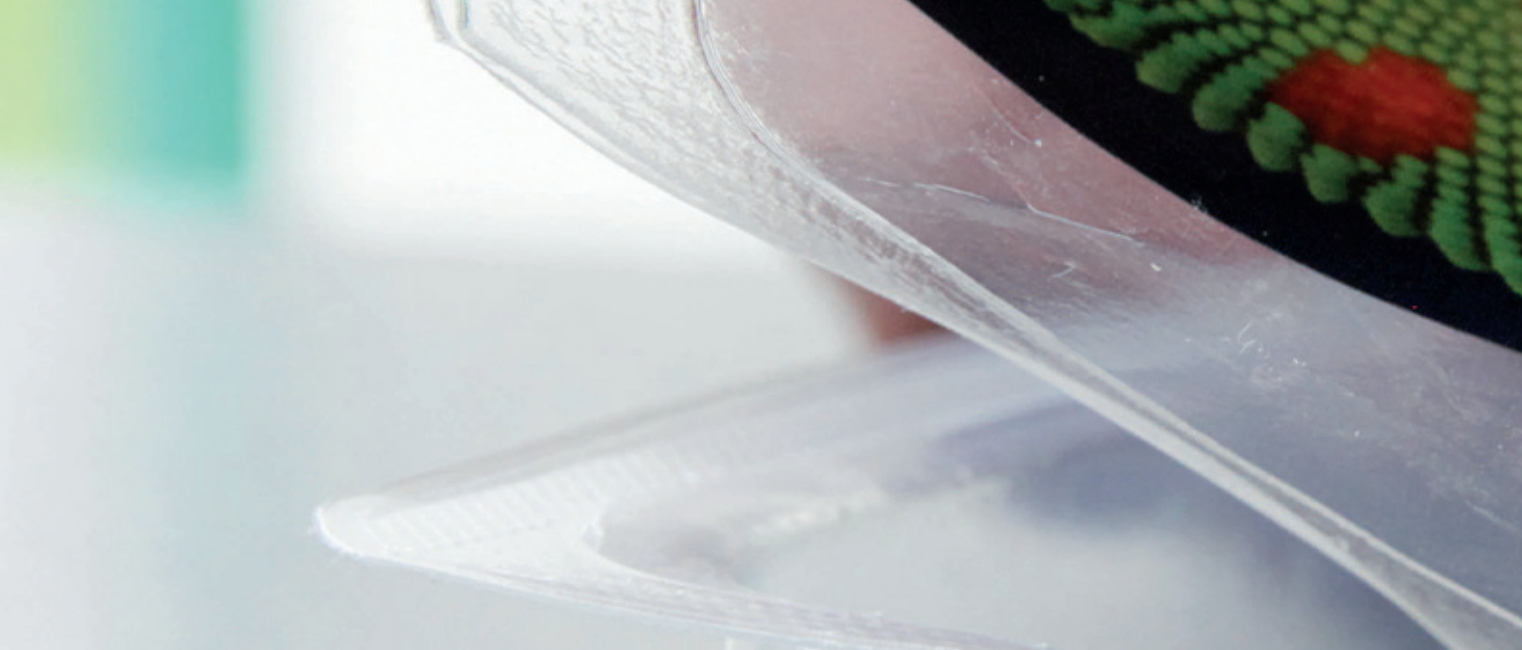


Anti-fog coating create a thin, transparent water film that lets light pass through for clear visibility.



#### ENVIRONMENTAL PERFORMANCE

- Compatibility with sustainable, recyclable tray materials like PolyEthylene Terephthalate (APET, CPET, RPET) and certified by Plastic Sense Fondation (Ecosense & Retray) to not impact PET recycling streams
- Enhance food freshness
- Lightweight packaging design



# M-Resin™

## ADHESIVE FOR RESEALABLE TRAYS

Reclosable packaging through resealable adhesive can ensure food freshness and safety enabling the multi-portion package to be a more convenient and sustainable solution to use. Reclosable packaging offers strong brand exposure and can be used for food products but can also be extended to non-food products.



### EASY IMPLEMENTATION

- Lower OPEX through reduced converting steps (vs die-cut lidding & resealable labels)
- Little/No CAPEX required

### ATTRACTIVE DESIGN

- Brand exposure: 360° view and fully printable surface
- Enable on-pack communication that explains the key benefits of the reclosable option to the consumer

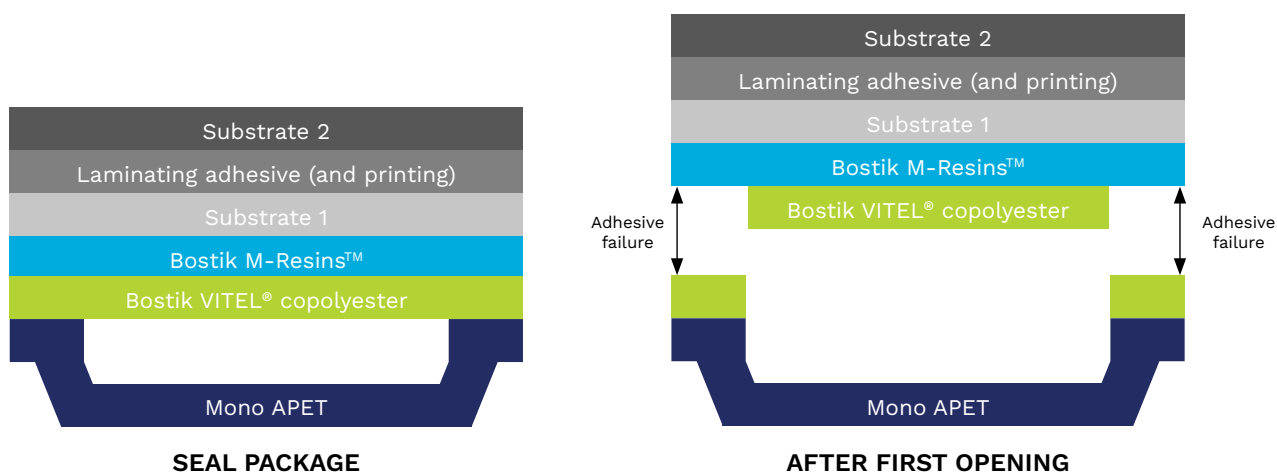
### USER'S CONVENIENCE

- Extension of food shelf life, freshness, and ability to minimize food waste at home
- Convenience: easy-open, ready-to-eat, pre-portion, multiple uses of the same packaging



## RESEALABILITY + RECYCLABILITY + WEIGHT REDUCTION

BOSTIK VITEL® 1200B.F COPOLYESTER CAN BE USED IN MULTI-LAYER FILM APPLICATIONS WITH BOSTIK RESEALABLE M-RESIN™ TECHNOLOGY IN DUAL SYSTEM.



### ENVIRONMENTAL PERFORMANCE

- Enable tray recycling:  
Certified by Recyclclass (PE), The Plastic Sense Foundation (PET), and HTP Cyclos (PP) and adapted to mono-material substrates
- Reduce the use of materials with reduced packaging: up to 40% less plastic compared to clamshell
- Decrease GHG Emission due to transportation of lighter packaging and less converting steps



# Turbo-Seal®

## ADHESIVE FOR HIGH PERFORMANCE COLD SEALING

Our cold seal coatings combine natural rubber latex with Bostik's proprietary synthetic emulsion and polymers for high performance sealing. We have formulations for mono-web and laminated applications with the flexibility to meet a variety of food packaging needs.



### IMPROVE EFFICIENCY

- High productivity with higher packaging speed for small size pouches
- Cost efficiency: low cost by square meter for big size pouches 20% coated
- Energy savings (no heat required)

### SUITABLE FOR FOOD PACKAGING

- Less food damage due to absence of heat
- No odor
- No off-flavoring
- Comply with the necessary food contact regulations

### PACKAGING PERFORMANCE

- No heat resistance requirement for packaging material
- Effective even when there is a change in the line's speed
- No melt in sealed area since no heat



## INDUSTRY KNOWLEDGE, APPLICATION EXPERTISE



### FOOD PACKAGING

Turbo-Seal® Cold Seals are compositionally compliant with most food contact regulations for food packaging.

They are ideal for food product applications that require consistent seal strengths on high speed horizontal form and fill packaging machine.



### MEDICAL PACKAGING

Turbo-Seal® are designed to meet the highest quality standards required by the medical packaging industry, Bostik's products provide excellent sealability and aging performance for many medical flexible packaging applications.



### ENVIRONMENTAL PERFORMANCE

- Recyclable in PE and paper streams (How2recycle and TREX)
- Reduce the use of materials adapted to PE and Paper substrates
- Decrease GhG emission driven by higher manufacturing productivity
- Lower energy consumption compared to heat seal
- Reduces food waste with resealable features

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Estonia	Italy	Russia	
Finland	Latvia	Spain	
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**Ready to get started  
with our seal, reseal,  
and coating  
solutions today?**

