



# Flexible Lamination

**SMART & SAFE SOLUTIONS  
FOR CIRCULAR PACKAGING**



Adhesive solutions by **ARKEMA**

# Bostik: a global leader in adhesive technologies

Bostik is a division of Arkema, a **top global provider of cutting-edge materials and solutions**. Bostik adhesives are used in the manufacture and assembly of products in a wide range of sectors, including advanced packaging & converting, hygiene, paper & cardboard, and durable goods.

## A RANGE OF CHEMISTRIES AND TECHNOLOGIES TO ADDRESS THE ENTIRE PACKAGING CHAIN

### INNOVATION & DISTINCTION

- > Bold product development
- > Pioneer of unique solutions
- > Insight into market trends
- > Anticipation of regulatory changes

### SUSTAINABILITY ENABLERS

- > Ambitious goals in sustainable development
- > Life Cycle Assessment
- > Third party certifications for circular packaging solutions

**WE ARE**  
SUSTAINABILITY  
*enablers*  
Join our movement

### WORLD CLASS PARTNER

- > Worldwide presence and production partner
- > Customer centric organization
- > Global key account management

### LEGACY OF EXCELLENCE

- > Recognized industry leader
- > Committed to efficiency
- > Best-in-class quality

## A GLOBAL AND HOLISTIC APPROACH TOWARD SUSTAINABILITY IN LAMINATED FLEXIBLE PACKAGING



#### Enabling Circularity

**Mechanical recycling** for mono-material structures

#### Environmental Care

**GHG** emissions reduction

#### Food Safety. Anticipating regulatory changes

Flexible packaging **free of all substances of concern:**  
PAA, Glymo, Cyclic esters, BPA. Peace of mind!

#### Converting Efficiency

**Energy and cost saving solutions** such as curing time reduction and streamlined processes



# Your Multilayer and Mono-material Expert

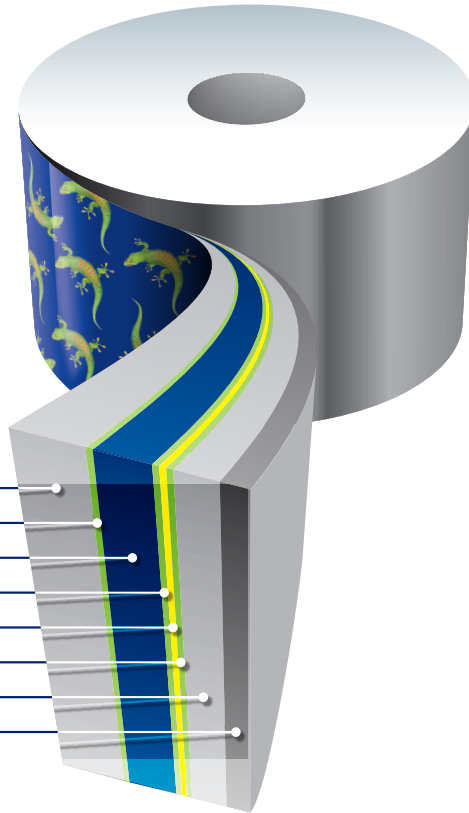
SOLVENT-LESS

SOLVENT-BASED

WATER-BASED

EXTRUSION COATING

Outer layer \_\_\_\_\_  
Adhesive \_\_\_\_\_  
Lamination layer \_\_\_\_\_  
Adhesive \_\_\_\_\_  
Barrier \_\_\_\_\_  
Adhesive \_\_\_\_\_  
Reclosable layer \_\_\_\_\_  
Sealing layer \_\_\_\_\_



## World-class Technical Support

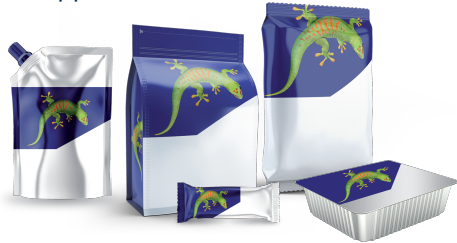
- > Supplier of choice for joint innovation, with full support of our R&D teams
- > Support to packaging development with advanced pilot converting laboratories
- > Customer focused team of experts for changing regulations and market trends
- > Responsive and reactive global supply chain and local support
- > Technical assistance around the world to support your organization



# In touch with your needs

## FOOD

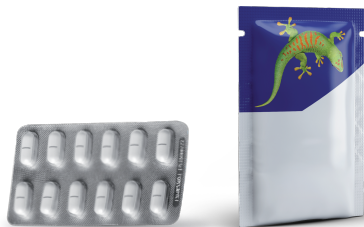
- > Food safety and regulatory proficiency
- > Production and supply chain excellence
- > Processes for extreme conditions (boiling and retort)
- > Packaging for aggressive food types, including spices and acids
- > Design innovation support



Customer-focused team of experts  
in **food safety & regulations**

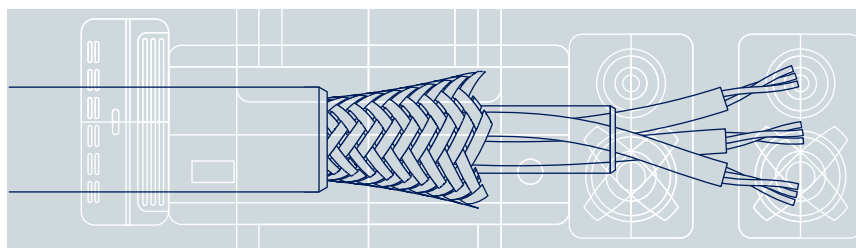
## PHARMA

- > Pharmaceutical regulatory standards
- > Fit for advanced sterilization processes
- > High stress resistant adhesives



## PERSONAL & HOME CARE

- > Meeting skin contact regulatory standards
- > Chemical resistant adhesive



## INDUSTRIAL

- > Heavy duty applications
- > Special resistance to :  
Extreme temperatures /  
UV ray aging / electricity / humidity

# SF10M

RecyClass approved Laminating Adhesive for recyclable Mono-Material Packaging

- > Recyclass approved as fully compatible with the PE films recycling stream in Europe
- > Easy to process, even at high line speeds
- > Solvent free 2K system
- > Suitable for laminates consisting of unprinted/printed films & metallized BOPP



Mono-material PE

Bostik’s next generation of adhesives are designed with circularity in mind. Our extensive upfront testing ensures that packages made with our Recyclass approved adhesives will seamlessly flow through the recycling infrastructure of today and tomorrow.

PCR Film Properties	Effect on recycle PE*	Conventional 2KPU Laminating adhesive	Bostik SF10M designed for circularity
	Recyclass Approved	NO	YES
	Yellowing (+b*)	+168%	+15%
	Ash content	+500%	+7%
	Dart impact strength	-48%	+0%
	Haze	+4%	+0%

Both adhesives tested against the specifications of the Recyclass protocol for PE films.  
\*Recyclate PE = 50% laminate/50% virgin LDPE





## About RecyClass

Recyclass is a non profit, comprehensive cross industry initiative that advances plastic packaging recyclability and ensures traceability and transparency of recycled plastic content in Europe.



# SOLVENT-FREE LAMINATION

## APPLICATION

APPLICATION				SPECIALTIES
LAMINATION	BOILING PASTEURISATION	RETORT		
SUBSTRATES	PET/ALU/OPA/CPP PET/ALU/CPP ALU/CPP PETSiox/OPA/CPP PET/AlOx/OPA/CPP PETSiox/CPP PET/PEevohPE BOPA/PEevohPE	<div>2KLF 760 The Smart Choice</div> <div></div> <div>HIGH PERFORMANCE</div>	<div>INNER LAYER RETORT</div> <div>with H330 ✓ PAA Free ✓ Non-Yellowing ✓ Efficiency ✓ High Bond on Alu Foil</div>	Mono-component systems
	OPA/PE PA/PE PET/Met PET Met PET/PE PET/ALU/PE	<div>2KLF 520 Most efficient</div> <div></div> <div>MEDIUM PERFORMANCE</div>	<div>with H107 ✓ Easy Use ✓ Best Pan Life ✓ Wettability ✓ Efficiency</div>	
STANDARD PERFORMANCE	PET/PE OPP/PE OPP/CPP	<div>2KLF 515 Adjustable performance</div> <div></div>	<div>with MP730 ✓ Standard ✓ Adjustable ratio to need</div>	1 KLF 194 or 1 KLF 196 ✓ For Paper, Film, Alu ✓ High Speed ✓ Thermal resistance
		<div>MP980 Cost efficiency</div> <div></div>	<div>with MP730 ✓ Standard</div>	



**WB lamination**  
DRF 25










**Extrusion lamination**  
TEE431

## SUBSTRATES

# SOLVENT-BASED LAMINATION

## APPLICATION

	LAMINATION	BOILING PASTEURISATION	RETORT	COLD FORMING	CHEMICAL RESISTANCE	SPECIALTIES
HIGH PERFORMANCE	UHP Range Exceptional performance and efficiency		<div>INNER &amp; OUTER LAYER RETORT</div> <div>with C1<ul style="list-style-type: none"><li>✓ Food safety</li><li>✓ Green Tack</li></ul></div>	<div>TESTING PHASE</div> <div>with CX<ul style="list-style-type: none"><li>✓ Aliphatic</li><li>✓ Room Temp Curing</li><li>✓ Fast cure</li><li>✓ FDA 177.1390</li></ul></div>	<div>TESTING PHASE</div> <div>HCP-X 160 High chemical resistance</div>	Mono-component systems
	LG 59A/70 or EP 2926 Efficiency High initial tack		<div>OUTER LAYER RETORT</div> <div>with C2<ul style="list-style-type: none"><li>✓ Universal</li><li>✓ Efficiency</li><li>✓ Wettability</li></ul></div>	<div>with C10<ul style="list-style-type: none"><li>✓ Aliphatic</li><li>✓ FDA 175.105</li><li>✓ Non-Yellowing</li></ul></div>		
	EPS 74/1 Versatile		<div>with C1<ul style="list-style-type: none"><li>✓ Easy Use</li><li>✓ Green Tack</li></ul>or H7711<ul style="list-style-type: none"><li>✓ Slip</li><li>✓ Drop resistance acceptance</li><li>✓ Green Tack</li></ul></div>	<div>with C1<ul style="list-style-type: none"><li>✓ Room Temp Curing</li><li>✓ Adhesion Boost</li></ul></div>	<div>with C2<ul style="list-style-type: none"><li>✓ Universal</li><li>✓ Efficiency</li><li>✓ Wettability</li></ul></div>	
MEDIUM PERFORMANCE	HP 1020/1 Tough & Flexible					
	MP 31 High solid applications		<div>with C3<ul style="list-style-type: none"><li>✓ Co-reactant</li><li>✓ Slip acceptance</li><li>✓ Wettability</li></ul></div>			MP 31 ✓ Easy use
STANDARD PERFORMANCE	690A 690B High slip acceptance					LG 31 ✓ Standard
	PET/PE OPP/PE OPP/CPP					

## SUBSTRATES

## EUROPE

Austria	Finland	Ireland	Portugal	The Netherlands
Bulgaria	France	Italy	Russia	Turkey
Belgium	Germany	Latvia	Spain	UK
Croatia	Greece	Lithuania	Sweden	
Denmark	Romania	Norway		
Estonia	Hungary	Poland		

## AFRICA- MIDDLE EAST

Egypt  
Morocco  
South Africa  
United Arab  
Emirates

## AMERICAS

Argentina | Chile  
Brazil | Mexico  
Canada | USA

## ASIA-PACIFIC

Australia | New Zealand  
China | Philippines  
Hong Kong | Singapore  
India | South Korea  
Indonesia | Thailand  
Japan | Vietnam  
Malaysia

Smart Help :  
**emea.industrial@bostik.com**



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