

ATTACHED TO YOUR WORLD

Smart adhesives for label applications

HOT MELT PRESSURE SENSITIVE ADHESIVES



Adhesive solutions by **ARKEMA**

Bostik adhesives surround you!



Bostik attached to your world

Sustainability enablers

E-commerce & Logistics

Beverages

Food

Specialties

Health & Beauty

Bostik attached to your world

Bostik is a global leader in Hot Melt Pressure Sensitive Adhesives (HMPSA). Working jointly with customers for many years, Bostik has developed an unrivalled level of expertise in a huge range of labels applications. In the Smart Technology Center in France, chemists and experts implement a variety of solutions matching the most demanding industry requirements.



By working with Bostik, you can rely on dedicated teams to support your business, all over Europe. We are eager to work with you, to select the right product and the best service. Bostik's adhesives are recognized worldwide for excellence, quality and performance, and our employees will ensure you find the right solution for your project.

BOSTIK

Bostik Smart Technology Center of Venette, France



Acting and innovating for people and the planet

Arkema's global commitment to sustainability



Delivering sustainable solutions driven by innovation

Developing solutions to replace existing materials based on crude oil, with bio-based and fully recyclable materials:

• 10% sales from products made from renewable or recycled raw materials* in 2022



Managing our activities as a responsible manufacturer

Acting for people's health & safety and for the environment:

• Aim to reduce GHG emissions by -54% by 2030 (vs 2019) on scope 1+2 and scope 3



Cultivating an open dialogue and close relations with our various stakeholders

Communicating in a transparent and accountable manner with customers, suppliers and partners:

 Ranked in 2021 Dow Jones Sustainability Indices (DJSI) among the chemical sector leaders: #3 in DJSI World, #2 in DJSI Europe



We are sustainability enablers

Bostik commits to delivering sustainable solutions driven by innovation. Our bio-based hot melt pressure sensitive adhesive, linerless, and wash off solutions enable label manufactures to enhance recyclability and overall sustainability of your products.

Bio-based adhesives could replace the use of fossil based raw materials in the production of labels to reduce stress on renewable resources

BIO-BASED	%	% BIO-BASED CONTENT*		TG (°C)
TLH 9100 E	46	Ambient conditions / Versatile substrates / EU 10/2011	-	-8°C
TLH 9700 E	70	Ambient conditions / Versatile substrates	PATENTED	0°C
TLH 9800 E	80	Ambient conditions / Versatile substrates / Excellent cohesion	•••	10°C

Linerless labels enable you to reduce waste (no release liner) and well as the weight of the label (less storage space and freight cost).

	LINERLESS	FEATURE		TG (°C)
	TLH 2356 E Innovation	Removable	Easy to remove / Withstands high temperature environments	-30°C
Ż	TLH 2916 E Innovation	Removable	Easy to remove / Fast adhesion for auto-apply and sortation	-20°C
	TLH 4184 E Innovation	Permanent	Excellent converting / Low application temperature Good balance of peel and tack	-2°C
	TLH 4000 E	Permanent	Ambient conditions / Versatile substrates / Good converting properties, smooth release behavior	2 °C

Wash off adhesive helps remove easily the label, hence facilizing the recycling of the product.

WASH OFF			TG (°C)
TLH 9200 E Innovation	Refillable & recyclable glass & HDPE bottle labelling	PATENTED	2 °C

* Certified externally by ASTM D6866-22 (Method B)



E-commerce & Logistics

Traceability plays a fundamental role in logistics through the supply chain process. From the conditioning to the final delivery of your product, Bostik delivers strong and reliable label adhesives supporting the most difficult conditions during transport, distribution and storage.

PERMANENT LOGISTIC LABEL		Tg (°C)
TLH 4272 E	Chilled conditions Wet surfaces – Cardboard, Glass, and PE High grab and low Tg	-5 °C
TLH 4293 E	"Ambient conditions High adhesion on a variety of substrates Excellent converting properties"	3 °C
TLH 4000 E	Ambient conditions Versatile substrates High grab, low release value	2 °C

R	REMOVABLE LOGISTIC LABEL			
2	TLH 2355 E Innovation	Ambient conditions Wide range of applications – Cardboard/glass/newspapers Easy to use	-30 °C	

PACKING LIST		Tg (°C)
TLH 4119 E	Chilled conditions Packing list – Recycled cardboards & PE/OPP films High tack, no tunneling effect	-2 °C
TLH 4123 E	Ambient conditions Packing list – Recycled cardboards & PE/OPP films Low viscosity. No tunneling effect	8 °C

Beverages

Labels establish the brand, communicate product benefits and significant information for the consumer. Bostik understands the importance of labels as a key element of your products. Providing high quality adhesives for every variety of bottle, Bostik helps your labels to maintain an appealing look, withstanding condensation and chilled conditions.

Wine & Spirit

PREMIUM ADHE	SIVES		Tg (°C)
TLH 4272 E	Chilled conditions Wet surfaces - Glass and PE High grab and low Tg		-5 °C
TLH 4275 HE	Chilled conditions Wet surfaces - Glass and PE Excellent grab and non-staining	PATENTED	-8 °C

Dairy & Soft drinks

QUALITY ADHESI	QUALITY ADHESIVES		
TLH 4275 HE	Chilled conditions Wet surfaces - Glass and PE High grab on versatile substrates		
TLH 4272 E	Chilled conditions Wet surfaces - Glass and PE High grab and clear labels		





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	Tg (°C)
PATENTED	-8 °C
	-5 °C









EU 10/2011 Standard for food contact

Safety is the first priority in the food industry. Bostik food regulation experts support you with food-safe adhesive solutions to match your customers' needs, in this ever-evolving regulatory environment.

EU 10/2011 / SAFE FORMULATION				
TLH 9100 E*	Ambient conditions Chilled conditions Versaltile substrates EU 10/2011	PATENTED	00	-8 °C
TLH 2259 E*	Deep-freeze conditions Wet surfaces – PE, cardboards EU 10/2011			-18 °C

Several products of our range have ISEGA certifications.

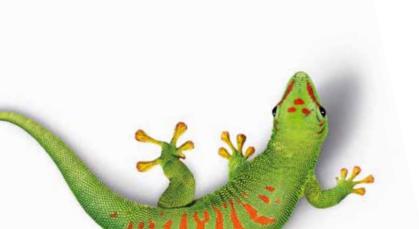


Linerless Labels

Bostik developed adhesive products with specific release behavior, suitable for linerless applications. Our adhesives help produce greener and smarter labels while saving on raw material, waste, storage and freight. Linerless label adhesive can be used in the Food industry and in many other applications.

	REMOVABLE		Tg (°C)
	TLH 2356 E Innovation	Easy to remove Withstands high temperature environments	-30°C
	TLH 2916 E Innovation	Semi-permanent bonding Fast adhesion for auto-apply and sortation	-20°C

	PERMANENT		Tg (°C)
Z	TLH 4184 E Innovation	Excellent converting Low application temperature Good balance of peel and tack	-2°C
	TLH 4000 E	Ambient conditions Versatile substrates Good converting properties, smooth release behavior	2 °C











Difficult substrates

Smart solutions exist, even for the most demanding specialties. As proven by our partnership with the Tour de France, Bostik high-performing adhesives are designed for each singular need, including niche markets and specific substrates.

TIRE		Tg (°C)
TLH 2548 EM	Ambient conditions Adhesion on irregular surfaces & plasticizer resistant Highly aggressive	2 °C
TLH 2549 E	Low application temperature instead of Winter tires Adhesion on irregular surfaces & plasticizer resistant Highly aggressive, low bleeding	-5 °C

OIL CAN		Tg (°C)
TLH 4280 E	Ambient conditions Difficult substrates High grab, excellent converting properties	2 °C
TLH 4000 E	Ambient conditions Versatile substrates High grab, low released value	2 °C

DETERGENT BOTTLE		Tg (°C)
TLH 4280 E	Ambient conditions Difficult substrates - OPP High grab, excellent converting properties	2 °C

TEXTILE		Tg (°C)
TLH 2211 ELO	Ambient conditions Tissue-tissue contact High initial tack, high shear resistance	15 °C

HEAT-SEALING	
XT 81406	Heat sealed product Easy to coat with a slot die or roller appl No tack at room temperature No release liner

From ambient to deep-freeze

Bostik adhesives offer reliable performance and superior quality from ambient to deepfreeze conditions, for food industry applications. We offer grades complying with ISEGA standards.

AMBIENT CONDITIONS		Tg (°C)
TLH 4272 E	Ambient conditions Versatile substrates and face stocks - Paper, Polyolefin Good adhesion and loop	-5 °C
TLH 4293 E	Ambient conditions High adhesion on a variety of substrates Excellent converting properties	3°C

CHILLED CONDIT	TIONS	Tg (°C)	
TLH 4272 E	Chilled conditions Versatile substrates and face stocks Condensation resistance	-5 °C	أك
TLH 4275 HE	Chilled conditions Difficult substrates – Recycled cardboard High grab, excellent converting properties	-8 °C	- A

DEEP-FREEZE C	ONDITIONS	Tg (°C)	*
TLH 2259 E*	Deep-freeze conditions Wet surfaces EU 10/2011, high adhesion	-18 °C	<u>i</u>













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Challenging conditions

Facing challenging conditions such as high temperatures, tear stress or customer specific processes, labels have no easy life. We take the challenge with you!

DRUM		Tg (°C)	
TLH 4280 E	Ambient conditions & marine immersion Difficult substrates High grab, no tunneling effect, easy processing	2 °C	
TLH 4000 E	Ambient conditions Versatile substrates High grab, low released value	2 °C	

SECURITY - MON	IEY BAG	Tg (°C)	
TLH 4492 E	Ambient & cold conditions Plastic Film – PE Resistance against tearing, high grab	-8 °C	

Health care & Cosmetics

Pharmaceutical labels display decisive product information from conditioning to shopping. Bostik offers dedicated adhesive solutions, permanent or removable, depending upon your final application.

> VIP label

> Prime label

PHARMACEUTICAL		Tg (°C)
TLH 2355 E	Ambient conditions Versatile substrates – PE, cardboard Removable, easy processing	-30 °C
TLH 4272 E	Chilled conditions Versatile substrates Permanent label, high grab	-5 °C

Labels are a key media to communicate your identity. For standard and premium packaging, Bostik delivers quality adhesives for a perfect high-end look.

BEAUTY CARE		Tg (°C)
TLH 4272 E	Chilled conditions Wet surfaces – Glass and PE High grab and low Tg	-5 °C
TLH 4197 E	Clear on clear application Ambient conditions Transparant facestock	5 °C





Physical properties

Application	тін	Service Temperature (°C)	Tg* (°C)	Shear FTM* 8	Loop tack FTM [*] 9	Peel FTM [*] 1	Av. viscosity 163 °C (mPa.s)	Packaging
	2355 E	-40 to 60	-30°	**	*	*	12000	OD
	2356 E	-40 to 60	-30	**	*	*	6300	0
	2916 E	-40 to 60	-20	**	**	**	15800	0
	4184 E	-20 to 60	-2	**	***	**	12300	0
	4000 E	-20 to 60	2	**	***	**	12 000	OD
	4119 E	-20 to 60	-2	*	***	*	15 000	
	4123 E	-20 to 60	8	*	***	*	5000	00
	4272 E	-20 to 60	-5	**	***	**	16 000	OD
	4293 E	-20 to 60	3	**	***	**	10500	0
	9200 E	-10 to 70	2	**	**	**	25 000	OD
	4275 HE	-20 to 60	-8	**	***	**	22 000	0
	2259 E	-40 to 60	-18	**	**	**	15 000	OD
	9100 E	-20 to 60	-8	**	***	**	32 000	00
	9700 E	-20 to 60	0	**	***	**	2000	0
	9800 E	-10 to 60	10	**	***	**	3000	0
	2548 EM	-20 to 50	2	**	***	**	6 000	00
	2549 E	-20 to 50	-5	*	***	*	10 000	00
	4280 E	-20 to 60	2	**	***	**	13 000	OD
	2211 ELO	-10 to 70	15	***	***	***	12 000 at 177 °C	
	4492 E	-20 to 60	-8	*	**	*	5 000	
	4197 E	-20 to 60	5	***	**	**	30 000	



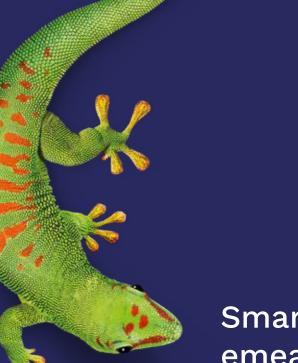
Food

ics Specialties Health and beauty



Free Pack

* Tg : Glass-transition temperature * FTM : Finat Test Method The information given and recommendations made herein are based on Bostik's research only and are not guaranteed to be accurate. The performance of the product, its shelf life, and application characteristics will depend on many variables, including the kind of materials to which the product will be applied, the environment in which the product is stored or applied, and the equipment used for application. Any change in any of these variables can affect the product's performance. It is the buyer's obligation, prior to using the product, to test the suitability of the product for an intended use under the conditions that will exist at the time of the intended use. Bostik does not warrant the product's suitability for any particular application. The product is sold pursuant to Bostik's Terms and Conditions of Sale that accompanies the product at the time of sale. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.



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