



Smart Adhesives for Label Applications

ADDRESSING A VARIETY OF APPLICATIONS WITH HOT MELT ADHESIVES



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INTRODUCTION

A leading global adhesive supplier for over 125 years, Bostik approaches the label industry with an extensive and unique combination of market and application expertise. By coupling technical requirements with business realities, we deliver complete label solutions to our customers - not just adhesive products. This is achieved through our dedicated, cross-functional team of experts continuously working together to understand label industry challenges and finding effective solutions to address tomorrow's problems today.



Bostik Center of Excellence for Hot Melt Technologies in Wauwatosa, Wisconsin

We have a deep knowledge of technical requirements, regulatory changes and how labels work, so our approach allows us to develop smart, complete label adhesive solutions to meet your logistics, beverage, food packaging, difficult substrate, durable and health care label application needs.

Learn more about how our robust label adhesive capabilities ensure that you find the right fit for your label construction.





LOGISTICS

Bostik's innovative shipping label and packing slip adhesives enable you to stay up to date on the rapidly changing parcel shipping label market. Addressing the trends affecting package design, these solutions possess ideal bonds to many substrates, including cardboard, pallet stretch wrap film and highly recycled content. They also can withstand extreme temperatures and environmental changes as well as factory and warehouse conditions, giving you the reassurance you need that packages will be delivered on time and on location.

Additionally, we formulate linerless label adhesives for logistics and mobile printer applications that streamline operations and improve plant efficiency. Furthermore, by enabling thinner label construction and faster application speeds, our solutions help you reduce label manufacturing costs and energy usage.

REMOVABLE LOGISTIC LABEL		Min. Application Temp.
Thermogrip® 2355-01	<ul style="list-style-type: none"> Adheres in a wide range of temperatures Maintains low bond strength over time No residue upon removal 	-33°F (-36°C)
PERMANENT LOGISTIC LABEL		Min. Application Temp.
Thermogrip® 20192	<ul style="list-style-type: none"> Adheres in a variety of warehouse and shipping conditions Withstands heat exposure in transit Higher bond strength even at a lower coat weight 	19°F (-7°C)
Thermogrip® 2345	<ul style="list-style-type: none"> Bonds to corrugated and pallet stretch wrap film Adheres in a variety of warehouse and shipping conditions Withstands heat exposure in transit 	21°F (-6°C)
Thermogrip® 2345H	<ul style="list-style-type: none"> Bonds to corrugated and pallet stretch wrap film Adheres in a variety of warehouse and shipping conditions Withstands heat exposure in transit 	19°F (-7°C)
LINERLESS		Min. Application Temp.
Thermogrip® 2916H	<ul style="list-style-type: none"> Provides magnetic/quick stick Bonds at low temperatures Has high upper service temperature 	-19°F (-7°C)
Thermogrip® 4184H	<ul style="list-style-type: none"> Bonds down to refrigerator temperature Scale bags and containers Suitable for linerless deli and weigh scale labels 	17°F (-7°C)
RFID		Min. Application Temp.
Thermogrip® 2224	<ul style="list-style-type: none"> Suitable for low temperature RFID labels Moderate tack and peel 	6°F (-14°C)
Thermogrip® 2571-01	<ul style="list-style-type: none"> High tack and peel Has high upper service temperature 	31°F (-1°C)



BEVERAGES

Our smart beverage adhesives enable your labels to improve overall bottle aesthetics and increase consumer appeal. By maintaining superior adhesion in wet or cold environments, these adhesives allow you to meet even the most stringent beverage label requirements on a variety of bottle substrates, including low surface energy, without impacting overall label appearance.

BEER, WINE AND SPIRITS		Min. Application Temp.
Thermogrip® 20129	<ul style="list-style-type: none"> Bonds to BOPP film without need for barrier coating Suitable for refrigerated beverage labels Repositionable and wrinkle-proof 	19°F (-7°C)
Thermogrip® 20165	<ul style="list-style-type: none"> Wets out glass or HDPE container perfectly in 48 hours Non-flagging; higher tack and shear Excellent high temperature performance; pasteurizable 	42°F (6°C)
Thermogrip® 2224	<ul style="list-style-type: none"> Adheres even in presence of condensation Adheres to plastic milk and juice jugs as well as glass beverage bottles Bonds down to low refrigerator temperature 	6°F (-14°C)
Thermogrip® 2259-01	<ul style="list-style-type: none"> Bonds down to freezer temperature in presence of condensation and ice Bonds well to beer bottles 	-8°F (-22°C)
DAIRY AND JUICE		Min. Application Temp.
Thermogrip® 20129	<ul style="list-style-type: none"> Bonds to BOPP film without need for barrier coating Suitable for refrigerated beverage labels Repositionable and wrinkle-proof 	42°F (6°C)
Thermogrip® 20165	<ul style="list-style-type: none"> Wets out glass or HDPE container perfectly in 48 hours Non-flagging; higher tack and shear Excellent high temperature performance; pasteurizable 	42°F (6°C)
Thermogrip® 2224	<ul style="list-style-type: none"> Adheres even in presence of condensation Adheres to plastic milk and juice jugs as well as glass beverage bottles Bonds down to refrigerator temperature 	6°F (-14°C)



FOOD PACKAGING

As food safety grows in importance, Bostik makes it a priority to stay up to date on the rapidly evolving regulations. By doing so, we are able to continually improve our food packaging label adhesive solutions, ensuring they meet label safety requirements no matter where your food packaging labels are applied or shipped.

FOOD CONTACT		Min. Application Temp.
Thermogrip® 4382H	<ul style="list-style-type: none">• Direct food contact compliant for product labeling• Bonds across a wide temperature range• Adheres to a large variety of surfaces	6°F (-14°C)





Chilled to Ambient

Bostik's food packaging label adhesives also offer you flexibility in your manufacturing processes. With clean application and the ability to bond in a variety of temperatures, these solutions help make it easier to apply labels to unique food packaging substrates.

REFRIGERATOR CONDITIONS		Min. Application Temp.
Thermogrip® 2224	<ul style="list-style-type: none"> • Bonds down to low temperature in the presence of condensation • Adheres to meat containers where grease is present 	6°F (-14°C)
FREEZER CONDITIONS		Min. Application Temp.
Thermogrip® 2259-01	<ul style="list-style-type: none"> • Good wet out • Bonds down to freezer temperature in the presence of condensation and ice • Adheres to frozen foods 	-8°F (-22°C)

DIFFICULT SUBSTRATES

Our extensive expertise enables us to formulate adhesive solutions that can bond to even your most challenging substrates and improve overall label performance. They can penetrate surface contamination on plastics and oily surfaces. These adhesives also form permanent bonds to low surface energy substrates, natural substrates and rough surfaces without sacrificing label integrity.

TIRES		Min. Application Temp.
Thermogrip® 2548B	<ul style="list-style-type: none"> • Bonds in presence of slip agents and silicone mold release • Adheres across a wide temperature range • Works on winter, summer, shaved and unshaved tires 	13°F (11°C)
Thermogrip® 4329	<ul style="list-style-type: none"> • High tack; good wet out • Excellent bond in presence of slip agents and silicone mold release • Bonds across wide temperature range 	21°F (-6°C)
PLASTIC BOTTLES		Min. Application Temp.
Thermogrip® 20129	<ul style="list-style-type: none"> • Bonds to BOPP film without need for barrier coating • Can bond at low temperatures • Repositionable and wrinkle-proof 	19°F (-7°C)
Thermogrip® 2885	<ul style="list-style-type: none"> • Very high tack and peel • Good high temperature performance • Non-flagging for Rx labels 	44°F (7°C)
Thermogrip® 4185	<ul style="list-style-type: none"> • Higher tack and peel • Suitable for integrated forms 	22°F (-6°C)
FABRIC		Min. Application Temp.
Thermogrip® 4329	<ul style="list-style-type: none"> • High tack • Good wet out • Suitable for permanent furniture labels 	21°F (-6°C)
WOOD		Min. Application Temp.
Thermogrip® 2985	<ul style="list-style-type: none"> • Bonds well to a variety of surfaces, including rough wood, painted or coated substrates, smooth recycled corrugates and LSE plastics 	30°F (-1°C)



DURABLE LABELS

Bostik's durable label adhesives are designed to withstand bonds in even the toughest environments. When exposed to extreme temperatures or battery acid conditions, your labels maintain bonds in even the toughest environments without impeding the visibility of needed information for end-use consumers.

DRUM LABELS		Min. Application Temp.
Thermogrip® 2224	<ul style="list-style-type: none">• Performs according to BS5609 Hazardous Drum Label Marine Standard• Quick bond	6°F (-14°C)
Thermogrip® 2259-01	<ul style="list-style-type: none">• Good wet out• Performs according to BS5609 Hazardous Drum Label Marine Standard	-8°F (22°C)
BATTERY CONTAINER		Min. Application Temp.
Thermogrip® 2571-01	<ul style="list-style-type: none">• High tack and peel• Passes sulfuric acid test for PP battery caps labels• Has high upper service temperature	31°F (-1°C)
HIGH TEMPERATURE		Min. Application Temp.
Thermogrip® 2211	<ul style="list-style-type: none">• Bonds to low energy surfaces• Very high tack, peel and shear	46°F (8°C)
Thermogrip® 2885	<ul style="list-style-type: none">• Very high tack and peel• Excellent die cut	44°F (7°C)



HEALTH CARE

Our label adhesives for pharmaceutical and cosmetic label applications offer the ideal bond to keep packaged items safe and secure. Non-flagging and repositionable, these solutions possess excellent die cut capabilities, making it easy to create the exact size and shape label that you need.

PHARMACEUTICAL		Min. Application Temp.
Thermogrip® 20165	<ul style="list-style-type: none"> • Repositionable; high tack and shear • Wets out glass or HDPE container perfectly in 48 hours • Excellent high temperature performance 	42°F (6°C)
Thermogrip® 2885	<ul style="list-style-type: none"> • Very high tack and peel • Repositionable within first 15 minutes of application • Bonds well to curved surfaces without flagging 	44°F (7°C)
COSMETICS		Min. Application Temp.
Thermogrip® 20129	<ul style="list-style-type: none"> • Bonds to BOPP film without need for barrier coating • Bonds at low temperatures • Repositionable and wrinkle-proof 	19°F (-7°C)
Thermogrip® 20165	<ul style="list-style-type: none"> • Repositionable; High tack and shear • Wets out glass or HDPE container perfectly in 48 hours • Excellent high temperature performance 	42°F (6°C)
Thermogrip® 2885	<ul style="list-style-type: none"> • High tack and peel • Excellent die cut 	44°F (7°C)

PHYSICAL PROPERTIES

Application	Thermogrip® Product	Service Temperature Range†	Minimum Application Temperature	SAFT PSTC* 17	Loop Tack PSTC* 16	Peel PSTC* 101	Average Viscosity 325 °F (63°C) (cps)
●	2355-01	Wide	-33°F (-36°C)	◆◆◆	◆	◆	8,000
●	20192	Cool	19°F (-7°C)	◆	◆◆	◆◆	8,700
●	2345	Cool	21°F (-6°C)	◆	◆◆	◆◆	14,075
●	2345H	Cool	19°F (-7°C)	◆	◆◆	◆◆	14,500
●	2916H	Wide	-19°F (-28°C)	◆	◆	◆	11,750
●	4184H	Wide	17°F (-8°C)	◆	◆	◆	12,400
●●●●	2224	Cold	6°F (-14°C)	◆	◆◆	◆◆	9,100
●●	2571-01	High	31°F (1°C)	◆◆	◆◆◆	◆◆◆	15,100
●●●	20129	Cool	19°F (-13°C)	◆	◆◆	◆◆	24,000
●●●	20165	High	42°F (6°C)	◆◆◆	◆◆◆	◆◆	18,200
●●●	2259-01	Cold	-8°F (-14.4°C)	◆	◆◆	◆	14,700
●	4382H	Wide	6°F (-14°C)	◆◆	◆◆	◆	16,500
●	2548B	Wide	13°F (-11°C)	◆	◆◆	◆◆	5,500
●	4329	Cool	21°F (-6°C)	◆	◆◆	◆◆	3,350 @ 275°F (135°C)
●	2985	Midrange	30°F (-1°C)	◆	◆◆	◆◆	10,000
●●	2211	High	46°F (8°C)	◆◆◆	◆◆◆	◆◆◆	25,950
●●●	2885	High	44°F (7°C)	◆◆	◆◆◆	◆◆◆	12,075
●●	4185	Wide	22°F (-6°C)	◆◆	◆◆	◆◆	12,000

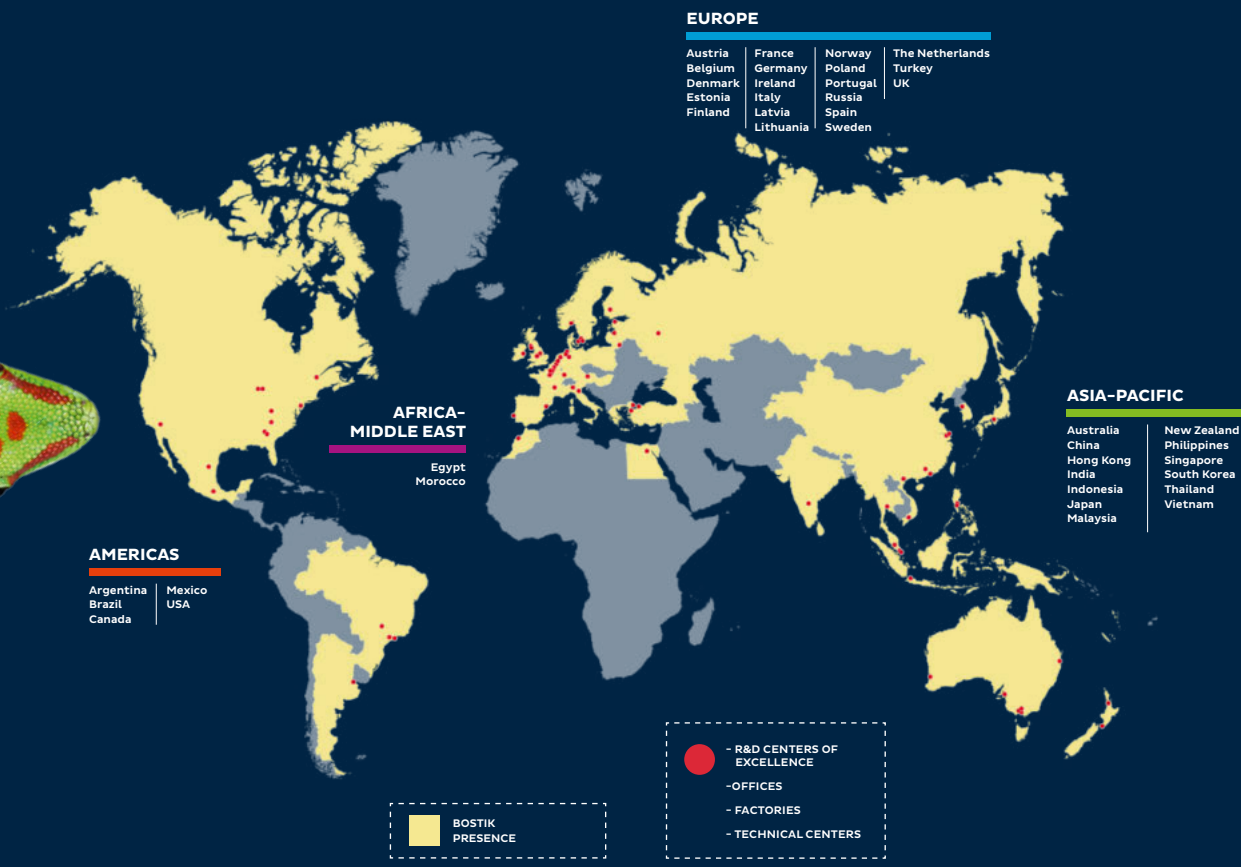
- Logistics
- Beverages
- Food Packaging
- Difficult Substrates
- Durable Labels
- Health Care

† Service Temperature Range
 High: ≥190°F (88°C)
 Cold: ≥10°F (-12°C)
 Cool: 11°F to 30°F (-12°C to -1°C)
 Midrange: 30°F to 150°F (-1°C to 66°C)
 Wide: <30°F and >150°F (<-1°C to >66°C)

SAFT
 ◆ <150°F (66°C)
 ◆◆ 150-180°F (66-82°C)
 ◆◆◆ >170°F (77°C)

Loop Tack & Peel
 ◆ <3lbs (<1kg)
 ◆◆ 4-7lbs (2-3kg)
 ◆◆◆ >7lbs (>3kg)

* PSTC: Pressure Sensitive Tape Council



EUROPE

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|---------|-----------|----------|-----------------|
| Austria | France | Norway | The Netherlands |
| Belgium | Germany | Poland | Turkey |
| Denmark | Ireland | Portugal | UK |
| Estonia | Italy | Russia | |
| Finland | Latvia | Spain | |
| | Lithuania | Sweden | |

AFRICA-MIDDLE EAST

- Egypt
- Morocco

AMERICAS

- | | |
|-----------|--------|
| Argentina | Mexico |
| Brazil | USA |
| Canada | |

ASIA-PACIFIC

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

BOSTIK PRESENCE

- R&D CENTERS OF EXCELLENCE
- OFFICES
- FACTORIES
- TECHNICAL CENTERS

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