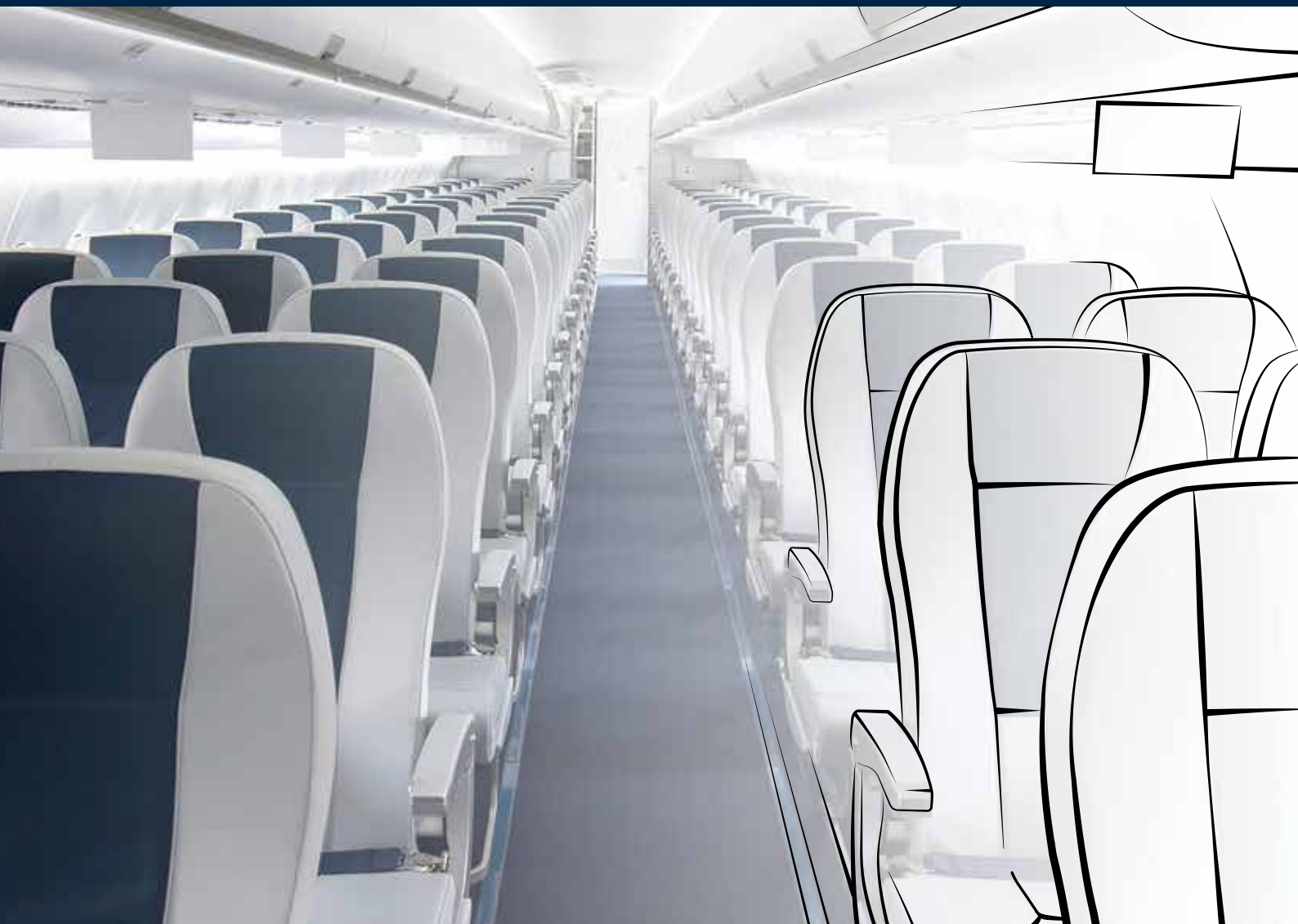




Achieving New Heights

SMART ADHESIVES FOR AIRCRAFT INTERIORS





Adhesive Options

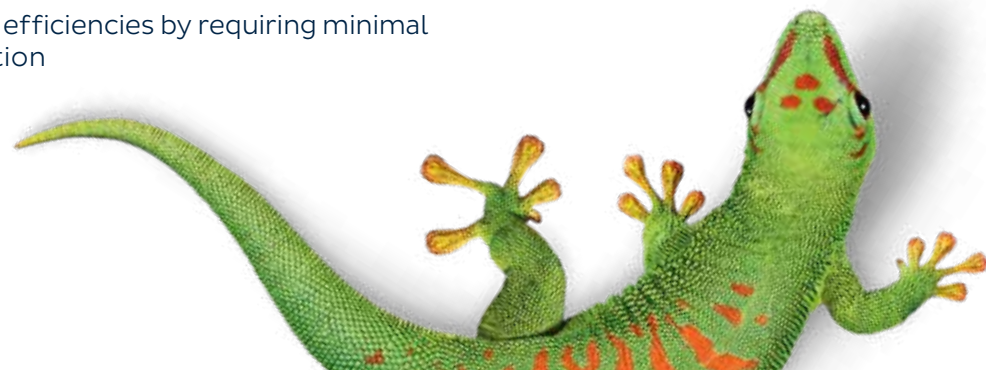
The Bostik Difference

Engineered for strength, durability and safety, our adhesives are formulated to improve manufacturing processes and enhance overall product performance and aesthetics for applications throughout the aircraft interior. Offering elasticity, torsional stiffness, temperature and environmental resistance, these solutions enable manufacturers to:

- Increase process flexibility by adhering dissimilar substrates
- Enhance process efficiencies by requiring minimal surface preparation

Further, as a global leader in aircraft interior flame retardant adhesives, our unique formulations help you better address increasingly demanding FST requirements for decorative laminates as well as thermal and acoustical insulation systems.

Backed by Arkema's expertise, our technical capabilities extend around the globe, taking you to new heights.



What are **FILM ADHESIVES?**

Film adhesives are adhesives that form a thin flexible layer, which can be heat activated or pressure sensitive for various applications. Offering over 30 years of experience with solvent cast films for aerospace applications, our products help control consistency in applications from usage variance to repeatable performance characteristics.



What are **LIQUID ADHESIVES?**

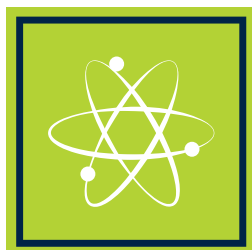
Bostik produces a wide range of liquid adhesives, from water-based technologies to solvent-based flame retardant systems. These solutions lead the way in interior adhesives, offering versatility and scale for any size application.



What are **WEB ADHESIVES?**

Web adhesives are hotmelt adhesives converted into a web-like film that handles like fabric. Web adhesives from Bostik can increase productivity, offer low environmental impact, make better utilization of plant space, increase product shelf life and save on energy and operating costs. Webs offer consistent usage control while optimizing weight to performance criteria. All Bostik web adhesives are VOC free, simplifying processes and providing a safer alternative for adhesion.

Smart Solutions THROUGH CUSTOM FORMULATION



Bostik is committed to partnering with aerospace manufacturers to achieve the perfect bond for their unique applications. With in-house research and development resources and deep knowledge of the challenges facing the industry, Bostik can custom formulate an adhesive solution that meets a customer's specific need. Bostik's broad and diverse adhesive technology portfolio provides versatility in our approach.



Technology



What is ELASTIC BONDING?

Elastic bonding adhesives provide a flexible joint or seal that bonds individual components to a structural frame. This enables a dynamic attachment, which allows expansion and contraction while maintaining bond integrity. Elastic bonds are extremely durable, making them ideal for applications where a higher-temperature structural bond would break under continuous movement and stress.



What is FLAME RETARDANCY?

Flame retardant adhesives inhibit the spread of flame. They aid aerospace occupant safety by reducing fire, smoke and toxic fumes, allowing aerospace passengers a greater span of time to exit a high-danger situation.



What is PRESSURE SENSITIVE ADHESION?

Commonly known as a PSA, pressure sensitive adhesives offer a wide range of adhesion on many different substrates and are able to adhere simply by applying pressure. From permanent bonds to removable adhesion, PSAs are a great choice for bonding panels, fabrics, foam and other interior products.



What are LIGHTWEIGHT SOLUTIONS?

Bostik's lightweight solutions are designed to reduce weight in aircraft, yielding to reduced fuel usage and a lower overall impact on the environment. These solutions are able to decrease weight while still providing strong, lasting bonds that keep transportation moving.



Adhesive Applications

ATTACHMENT ADHESIVES

Attachment adhesives are film or liquid adhesives that give components a peel and stick feature for easy interior assembly and installation.

○ F14-552 | F14-554 | F14-610

● LIQ 7590



MOUNTING ADHESIVES

Mounting adhesives are used to provide immediate bond to substrates upon contact and are used throughout the plane in various interior applications. These adhesives, although traditionally thought of as liquids, can also be provided as pre-applied pressure sensitive adhesive films.

○ F14-552 | F14-554 | F14-588 | FPA110-1FR

● L1096MR | L4145-14H | L4145-30H | L7132K
L7132R | L1685MC | LIQ 1531AC

EMBOSSING RESINS

Embossing resins provide the textured aesthetic to interior panels, bonding layers of low surface energy materials together to prevent marking, stains and graffiti. Embossing resins can be thermoset or thermoplastic as well as reinforced with fiberglass to further improve durability in use.

○ F10-634 | F10-250

INSTANT ENGINEERING ADHESIVES

Bostik's Born2Bond™ instant engineering adhesives are ideal for bonding aircraft interior plastic parts and inserts. Offering permanent adhesion to most substrates, such as plastics, rubbers and metals, this technology improves the ability to quickly adhere or repair interior tray tables and trim. They are low odor and low blooming, improving worker safety and performance levels, and are available in a range of viscosities to suit specific aircraft application needs.

● BORN2BOND ULTRA

HEAT SEAL ADHESIVES

Some aerospace applications use assembly processes that require quick sealing of edges or parts with heat. Heat seal adhesives are typically coated onto those substrates and activated with heat later in the assembly process to ensure a quick, effective seal.

○ FPA110-FR1

● LIQ 300 | LIQ 7350

LAMINATING ADHESIVES

Laminating adhesives are used primarily for textile and fabric applications to adhere layered constructions together. Seating upholstery, decorative trims and cushions are common applications that use laminate adhesives.

○ FPA110-1FR

● PE85 | PE130 | PE120 | PE165 | SPA110 | PA115
PA145 | SH4275FR-A | SPA145FR-A

SKIN TO CORE COMPOSITES

Composite panels are comprised of a core material, typically honeycomb or foam core construction, sandwiched between two outer skins. These skins can come in a variety of formats, from prepreg to decorative skins. Bostik's products act as a tie layer between these substrates.

○ FPA110-1FR | F10-250 | F10-316

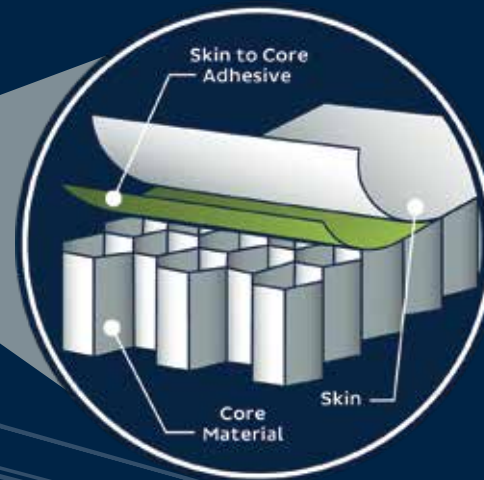
● PE120 | SH4275 | SH4275FR-A | SPA145FR-A

ADHESIVE TYPE

○ Film Adhesive ● Liquid Adhesive ● Web Adhesive



Skin to Core COMPOSITES



Mounting ADHESIVES



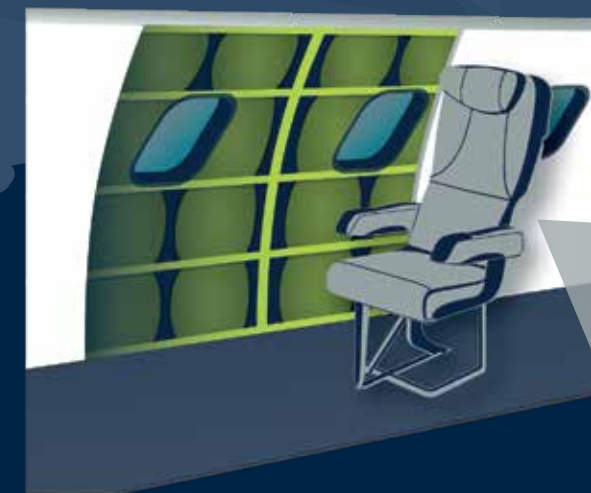
Laminate ADHESIVES



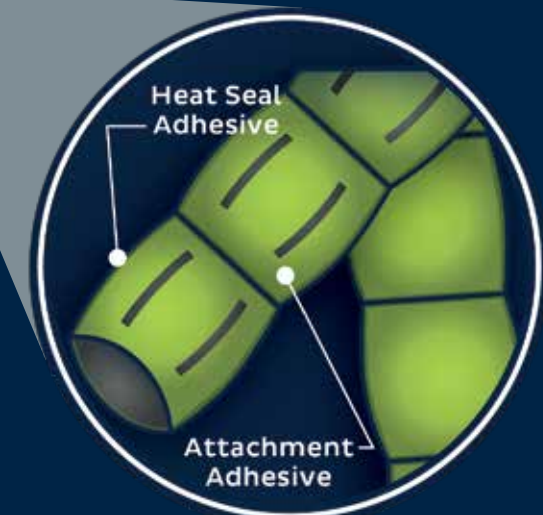
Instant Engineering ADHESIVES



Embossing RESINS



Attachment & Heat Seal ADHESIVES



Film Adhesives

APPLICATIONS

Embossing Decorative Laminates
Decorative Laminate Mounting
Skin to Core Composite Assembly

HEAT ACTIVATED FILM ADHESIVES

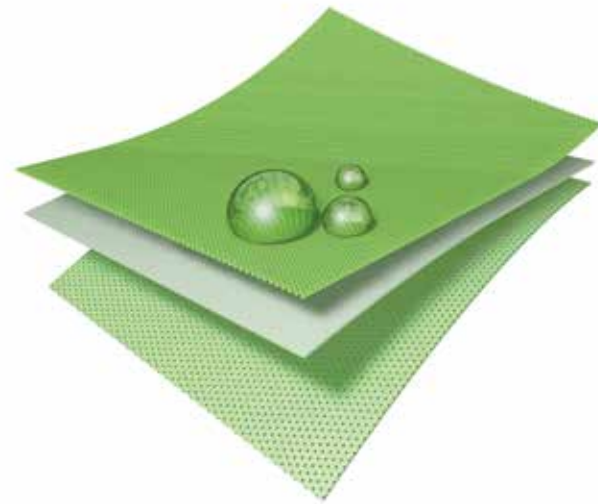
FLAME RETARDANT THERMOSET
NON FLAME RETARDANT THERMOSET
FLAME RETARDANT THERMOPLASTIC

Bostik's heat-activated films are thin, non-tacky solvent cast films, which allow for ease of handling and positioning prior to assembly. They have thicknesses ranging from 1 to 3 mils. The adhesive is activated with heat at the desired time to bond substrates together.

PRESSURE SENSITIVE FILM ADHESIVES

FLAME RETARDANT
NON FLAME RETARDANT

Bostik's pressure sensitive films are produced using our solvent cast process and offer thicknesses ranging from 1 to 3 mils. These films are ideal for pre-applied applications, enabling peel and stick functionality.



SUBSTRATE COMPATIBILITY

PRODUCT	PVF	PVC	ALUMINUM	PHENOLIC	ABS	TREATED PP	FABRIC	FIBERGLASS	RUBBER	URETHANE	METALS	PEI	PEEK
F10-250			•	•			•		•	•	•		
F10-316	•	•	•	•			•	•				•	•
F14-552	•	•	•	•	•	•	•			•	•	•	•
F14-554	•	•	•	•	•	•	•			•	•	•	•
F14-588	•	•	•	•	•	•	•			•	•	•	•
F14-610	•	•	•	•	•	•	•			•	•	•	•
F10-634	•	•	•	•				•				•	•
FPA110-1FR	•	•	•	•			•	•	•	•	•	•	•

Liquid Adhesives

APPLICATIONS

Decorative Laminate Mounting | Decorative Laminate Edge Wrapping | Hook and Loop Attachment | Honeycomb Core Splicing| Insulation and HVAC | General Bonding

MOUNTING ADHESIVES

Bostik's mounting adhesives are liquid, solvent-based adhesives that are either one- or two-part systems. They are ideal for general bonding of a large surface area or when clamping is difficult. Mounting adhesives adhere to themselves and can be applied with a spray or brush application. These adhesives are used by applying an even coat of the adhesive to each substrate, allowing it to dry, and mating the two substrates together.

HEAT SEAL ADHESIVES

Bostik's heat seal adhesives are liquid, solvent-based adhesives that are typically roll coat applied. They are dried and then laminated at elevated temperatures to form the heat seal.

PRIMERS

Bostik's primer is designed to enhance the adhesive anchorage to metal, plastic, glass, wood, concrete and many other rigid and semi-rigid surfaces where adhesion can be difficult. It is applied to the substrate as a pretreatment to the adhesive application.

PRESSURE SENSITIVE ADHESIVES

Bostik's pressure sensitive liquid adhesives are self-crosslinking, solvent-based, acrylic adhesives. When dried at elevated temperatures, these adhesives form a crosslinked network that is capable of forming a bond when pressure is applied.

SUBSTRATE COMPATIBILITY

PRODUCT	PVF	PVC	ALUMINUM	PHENOLIC	ABS	TREATED PP	FABRIC	RUBBER	URETHANE	METALS	PEI	PEEK
L7132K	•		•	•					•	•	•	•
L7132R	•		•	•					•	•	•	•
L4145-14H			•	•				•	•	•		
L4145-30H			•	•				•	•	•		
L1096MR	•	•	•	•	•	•		•	•	•	•	•
L1007M	•	•	•	•	•	•		•	•	•	•	•
L1685MC	•	•	•	•	•	•		•	•	•	•	•
LIQ 1531AC	•	•	•	•	•	•		•	•	•	•	•
LIQ 300	•		•	•					•	•	•	•
LIQ 7350	•		•	•					•	•	•	•
LIQ 7590	•	•	•	•	•	•	•		•	•	•	•



Web Adhesives

APPLICATIONS

Composites: Bonding to Skin | Composites: Lay-Up Aids
Composites: Skin to Core | Decoratives (Heat Activated)
Heat Seal | Layered Laminates | Seating: Foam to Cover

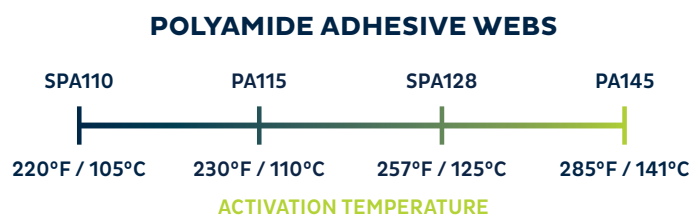
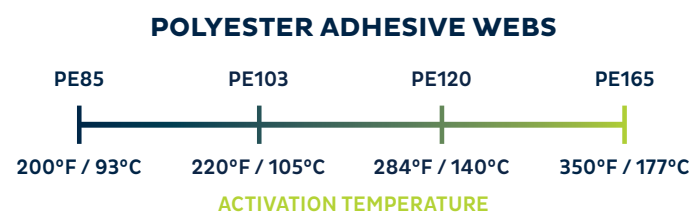
FLAME RETARDANT WEBS

Bostik's flame retardant web adhesives are hot melt adhesives converted into a thin web-like film that handles like fabric. The weight of the web can be varied between 12 - 60 grams per square yard. These products offer superior adhesive usage control to manufacturers, preventing over-spray and waste from spray and film applications.



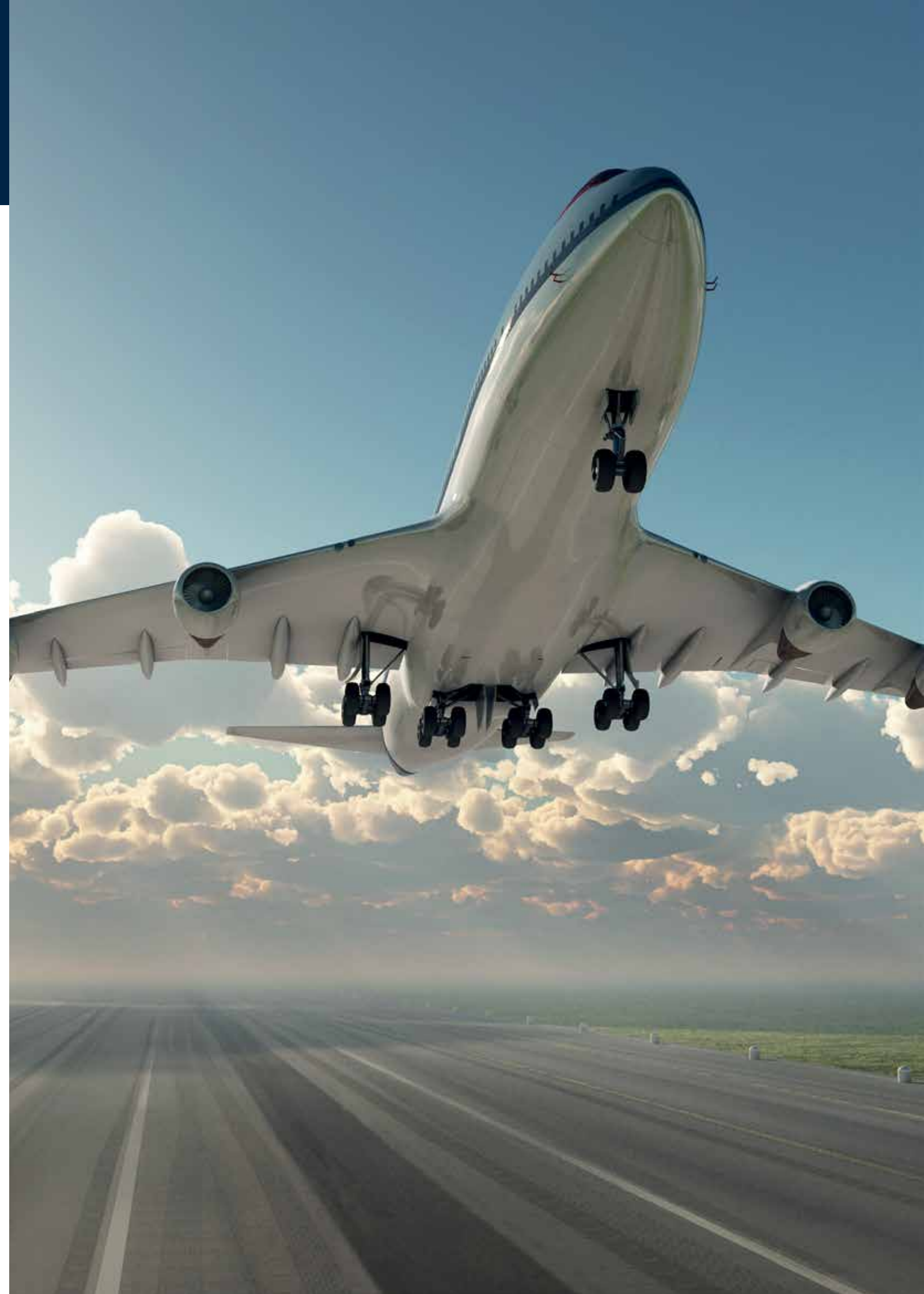
NON FLAME RETARDANT WEBS

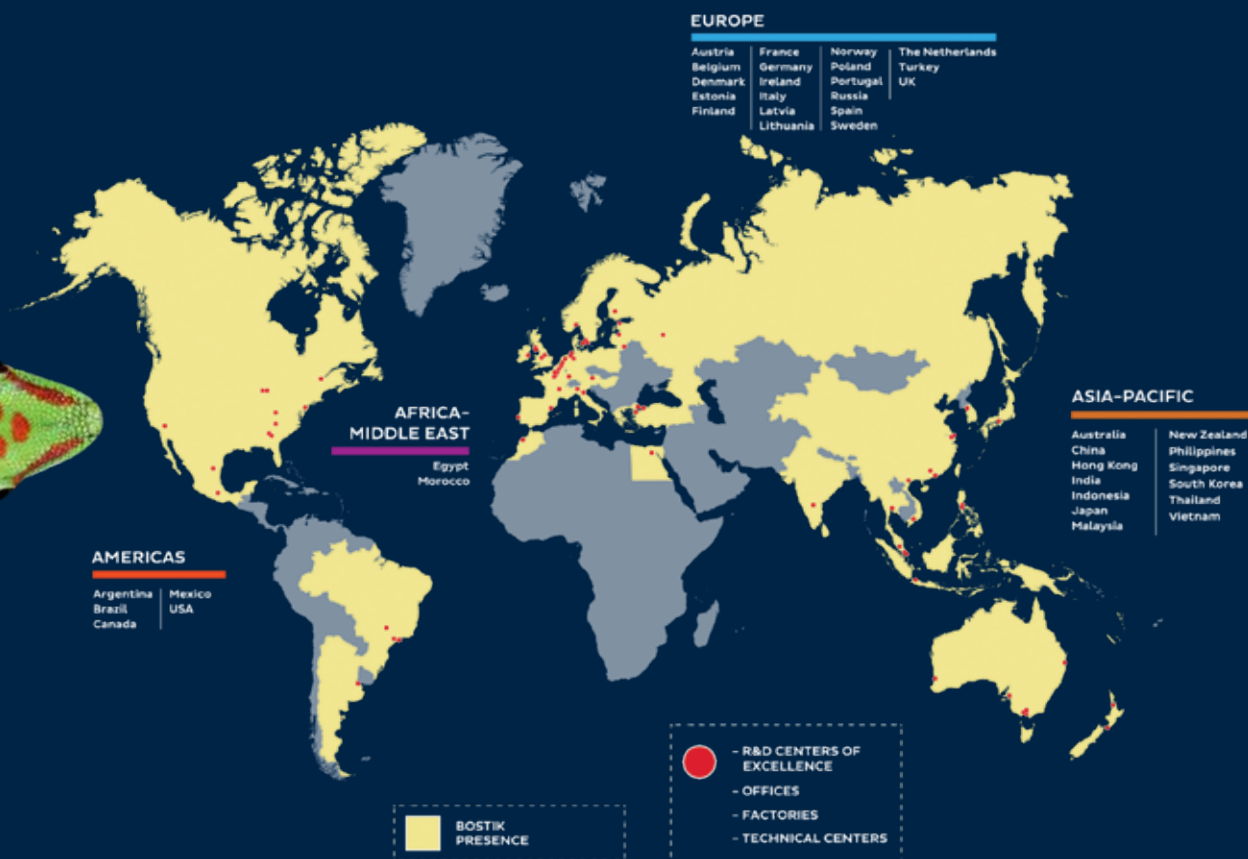
Bostik's non flame retardant web adhesives offer the same usage control advantages to manufacturers without the flame retardancy. Ideal for less stringent applications, the weight of the web can be varied between 12 - 100 grams per square yard.



SUBSTRATE COMPATIBILITY

PRODUCT	PVF	PVC	ALUMINUM	PHENOLIC	ABS	TREATED PP	FABRIC	FIBERGLASS	URETHANE	METALS	PEI	PEEK
PE85			•	•			•	•	•	•		
PE103			•	•			•	•	•	•		
PE120			•	•			•	•	•	•	•	
PE165			•	•			•	•	•	•		
SPA110		•	•	•	•	•	•	•	•	•		
PA115		•	•	•	•	•	•	•	•	•		
SPA128		•	•	•	•	•	•	•	•	•		
PA145		•	•	•	•	•	•	•	•	•		
SH4275FR-A	•	•	•	•	•	•	•	•	•	•	•	•
SPA145FR-A	•	•	•	•	•	•	•	•	•	•	•	•





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