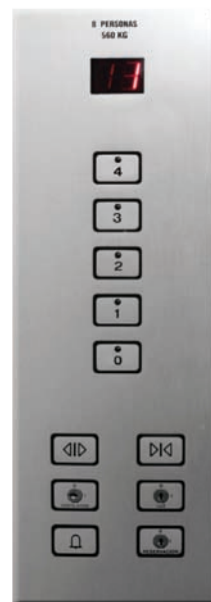


Selection Guide

AFB™ Acrylic Foam Bond
Specialty Applications



Intelligent Solutions



> Adhesion

Acrylic foam is viscoelastic in nature with flow and self adhesion properties which offer excellent bonding to a broad range of substrates.

> Durability

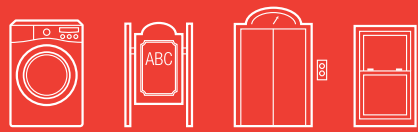
The unique composition of acrylic foam chemistry provides exceptional durability performance.

> Temperature Resistance

Service temperatures are higher than normal PE foam bond operating parameters.

> Application Flexibility

Suitable for wide range of industrial applications including home appliances, electronic devices, building, construction and transportation.



AVERY DENNISON ACRYLIC FOAM BOND – AFB™

Avery Dennison acrylic foam bond solutions are designed for a wide range of industrial applications requiring a high level of bonding strength. Our acrylic foam bond offer excellent tack, adhesion and cohesion performance, high temperature resistance, chemical, UV and humidity resistance for durability. A viscoelastic core section offers self adhesion with flow property, and a closed cell structure for easy release strength.

Avery Dennison acrylic foam bond are engineered to provide strong tack and adhesion bond to a multiple range of substrates like PC, ABS, PMMA and metal.

FEATURES:

- Viscoelastic acrylic foam as carrier
- High density foam with good internal strength
- Excellent environmental resistance properties
- Easy converting to increase efficiency
- Easy release liner with paper or PE film

TYPICAL APPLICATIONS:

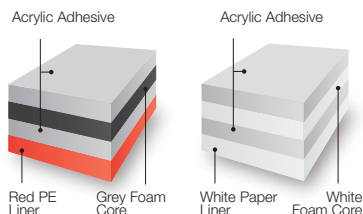
- Windows glass mounting (waterproof), loudspeaker, microphone bonding and TV frame mounting
- Door frame mounting for design decoration, refrigerator and other home appliances
- Nameplate, signboard and other component assembly, and lamination
- Elevator stiffener mounting and lamination
- Assembly of cushions, pads or strips, fixation of mirrors and cabinet doors in furniture

TEMPERATURE RANGES:

- Application minimum: +10°C /+50°F
- Service continuous: -40°C /-40°F to +120°C /248°F
- Service short term: +160°C /320°F

Acrylic foam bond offer better internal strength against mainstream foam bond such as PU and PE with good foam relaxation and stress vibration as gap filling.

Intelligent Solutions



Multi-Purpose Solution AFB™ 61 - Series

Feature:

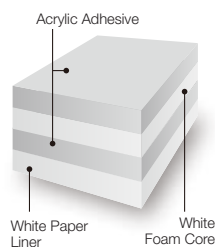
- Viscoelastic acrylic foam with double coated modified acrylic adhesive
- Available in black, grey and white

Benefits:

- Conformable foam density for better lamination
- Excellent bonding strength towards various materials
- Resistance of migration towards plasticizer in vinyl substrates
- Excellent environment resistance property
- Easily die-cut for a precise fit, seals against water, moisture and more

Applications:

- LDA (Refrigerator, microwave, etc), door frame mounting
- Washing machine control panel mounting
- Display (PDP/LCD/LED) frame holder/front mask/decoration



Low Surface Energy Solution AFB™ 64 - Series

Feature:

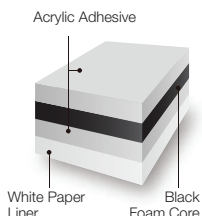
- Viscoelastic acrylic foam with double coated modified acrylic adhesive
- Available in white

Benefits:

- High performance adhesive enables bonding to low surface energy materials, such as many plastics and powder coated paints, plus smooth general materials
- Customized adhesive solution for LSE

Applications:

- Suitable for application requiring high bonding strength with low surface energy materials
- Home appliance assembly; refrigerator door frame mounting with powder coated panels



Multi-Purpose Solution AFB™ 61 - Thin Series

Feature:

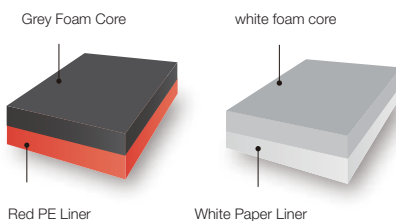
- Viscoelastic thin acrylic foam with double coated multi-purpose acrylic adhesive
- Available in black

Benefits:

- Light shielding
- Excellent waterproof and adhesion to irregular surface
- Cushion damp and vibration and absorb impact
- Virtually invisible fastening

Applications:

- TV frame mounting, name plate
- Gap filling



General Purpose Solution AFB™ 66 - Series

Feature:

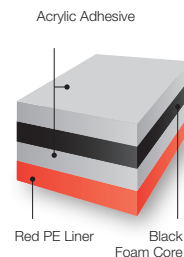
- Viscoelastic acrylic foam with general purpose acrylic adhesive
- Available in grey and white

Benefits:

- Effective, economic bonding solution with high initial, ultimate bond strength, easy to apply, aesthetically pleasing (smooth look), ability to damping vibrations
- Conformable foam density level enables good lamination with irregularity of rigid substrates, even when there are slight mismatch, while maintaining high internal strength

Applications:

- Metal or plastic bonding requiring high internal strength
- Appliance construction and attachments
- Lamination, nameplates and signage
- Furniture, electronics mounting, TV frames



Modified Purpose Solution AFB™ 62 - Series

Feature:

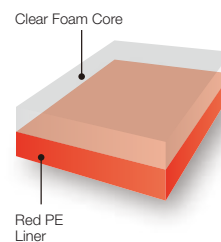
- Viscoelastic acrylic foam with double coated modified acrylic adhesive
- Available in black

Benefits:

- Good bonding to medium and low surface energy substrates including powder coated paints
- Conformable foam density level enables good lamination with irregularity of rigid substrates, even when there are slight mismatch, while maintaining high internal strength
- Easy to die-cut for a precise fit, seals against water, moisture, salt and more

Applications:

- Building & construction, glass board mounting, stiffener mounting
- Home appliance assembly, refrigerator door frame mounting with powder coated panels



General Purpose Solution AFB™ 66 - C Series

Feature:

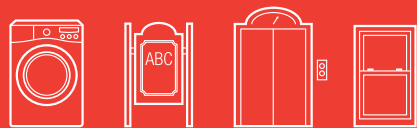
- Very high density transparent solid acrylic foam

Benefits:

- Excellent adhesion together with clarity level, suitable for application where clear or colorless is required, general purpose adhesive on both sides is for high surface energy substrates
- Good weather and environment resistance properties
- Stain resistance and clarity after aging

Applications:

- Glass or clear material fixation
- Seal between inner and outer dome of skylights
- Edge bonding for resin filled glass



ACRYLIC FOAM BOND

Avery Dennison Acrylic Foam Bond Portfolio

Product		Multi-Purpose Solution			
		AFB 61 - Series		AFB 61 - Thin Series	AFB 61 - Series
Foam Core Color		Grey	Black	Black	White
Density Level		Conformable 700 kg/m ³ = 44 lb/ft ³		Firm 920 kg/m ³ = 58 lb/ft ³	Firm 820 kg/m ³ = 51 lb/ft ³
Liner System		Red PE - AD imprint	Red PE - AD imprint	White Paper	White Paper
0.15mm	5.91 mils			AFB 6105B	
0.20mm	7.87 mils			AFB 6102B	
0.25mm	9.84 mils				
0.40mm	15.75 mils	AFB 6140G			AFB 6140W
0.50mm	19.69 mils				
0.60mm	23.62 mils				
0.64mm	25.20 mils	AFB 6164G	AFB 6164B		AFB 6164W
0.80mm	31.50 mils				AFB 6180W
1.00mm	39.37 mils				
1.10mm	43.31 mils	AFB 6111G	AFB 6111B		AFB 6111W
1.20mm	47.24 mils				AFB 6112W
1.50mm	59.06 mils	AFB 6115G	AFB 6115B		
2.00mm	78.74 mils				

Avery Dennison Acrylic Foam Bond Portfolio

Product		Modified Acrylic	LSE Solution	General Purpose		
		AFB 62 - Series	AFB 64 - Series	AFB 66 - Series		AFB 66 - C Series
		Black	White	White	Grey	Clear
Density Level		Conformable 800 kg/m ³ = 50 lb/ft ³	Firm 800 kg/m ³ = 50 lb/ft ³	Firm 800 kg/m ³ = 50 lb/ft ³	Firm 750 kg/m ³ = 47lb/ft ³	Solid 1000 kg/m ³ = 63 lb/ft ³
Liner System		White Paper	White Paper	Red PE - AD imprint	Red PE	
0.15mm	5.91 mils					
0.20mm	7.87 mils					
0.25mm	9.84 mils			AFB 6625W	AFB 6625G	AFB 6625C
0.40mm	15.75 mils				AFB 6640G	
0.50mm	19.69 mils					AFB 6650C
0.60mm	23.62 mils				AFB 6660G	
0.64mm	25.20 mils	AFB 6264B	AFB 6464W			AFB 6664C
0.80mm	31.50 mils	AFB 6280B			AFB 6680G	AFB 6680C
1.00mm	39.37 mils			AFB 6610W	AFB 6610G	AFB 6610C
1.10mm	43.31 mils	AFB 6211B	AFB 6411W			
1.20mm	47.24 mils				AFB 6612G	
1.50mm	59.06 mils	AFB 6215B			AFB 6615G	
2.00mm	78.74 mils				AFB 6620G	

Intelligent Solutions

Product Code	Product Construction						Performance Characteristics						
	Total Calliper		Adhesive System	Foam Color	Density Level		Liner System (µm)	Peel Adhesion on High Surface Energy Substrates	Peel Adhesion on Low Surface Energy Substrates	Shear	Tensile	Solvent Resistance	Temperature Resistance Short Term/Long Term (minutes/hours/days,weeks)
	(mm)	(mils)			kg/m ³	lb/ft ²							
AFB 61-Thin Series	Excellent static shear, peel adhesion and resistant to solvents, UV light and elevated temperatures. Thinner type of acrylic foam tape compared to conventional types. Suitable for applications requiring thinner bonding thickness to reduce space.												
AFB 6105B	0.15	5.91	Multiple Purpose	Black	950	59.3	White paper liner 160µm	●	●	●	●	●	150°C, 90°C 302°F, 194°F
AFB 6102B	0.20	7.87	Multiple Purpose	Black	920	57.4	White paper liner 160µm	●	●	●	●	●	
AFB 61-Series	Multi-purpose acrylic adhesive on both sides of the foam. The adhesive provides excellent adhesion to a broad range of high and medium surface energy substrates including metals, glass and a wide variety of plastic and plasticized vinyl. Conformable foam provides good contact, even with mismatched substrates, resists migration and plasticizer. Available in grey, black and white.												
AFB 6140G	0.40	15.75	Multiple Purpose	Grey	760	47.4	Red PE liner with AD logo imprint 130µm	●	●	●	●	●	150°C, 90°C 302°F, 194°F
AFB 6164G	0.64	25.20	Multiple Purpose	Grey	700	43.7	Red PE liner with AD logo imprint 130µm	●	●	●	●	●	
AFB 6164B	0.64	25.20	Multiple Purpose	Black	700	43.7	Red PE liner with AD logo imprint 130µm	●	●	●	●	●	
AFB 6111G	1.10	43.31	Multiple Purpose	Grey	680	42.4	Red PE liner with AD logo imprint 130µm	●	●	●	●	●	
AFB 6111B	1.10	43.31	Multiple Purpose	Black	680	42.4	Red PE liner with AD logo imprint 130µm	●	●	●	●	●	
AFB 6115G	1.50	59.06	Multiple Purpose	Grey	680	42.4	Red PE liner with AD logo imprint 130µm	●	●	●	●	●	
AFB 6115B	1.50	59.06	Multiple Purpose	Black	680	42.4	Red PE liner with AD logo imprint 130µm	●	●	●	●	●	
AFB 6140W	0.40	15.75	Multiple Purpose	White	820	51.2	White paper liner 130µm	●	●	●	●	●	
AFB 6164W	0.64	25.20	Multiple Purpose	White	820	51.2	White paper liner 130µm	●	●	●	●	●	
AFB 6180W	0.80	31.50	Multiple Purpose	White	820	51.2	White paper liner 130µm	●	●	●	●	●	
AFB 6111W	1.10	43.31	Multiple Purpose	White	820	51.2	White paper liner 160µm	●	●	●	●	●	
AFB 6112W	1.20	47.24	Multiple Purpose	White	820	51.2	White paper liner 160µm	●	●	●	●	●	
AFB 62-Series	Bonds well to medium low surface energy paints and plastics, and to a broad range of substrates including many powder coated paints. In addition to substrates containing a plasticizer component. Available in black.												
AFB 6264B	0.64	25.20	Modified Purpose	Black	800	49.9	Red PE liner with AD logo imprint 130µm	●	●	●	●	●	150°C, 110°C 302°F, 230°F
AFB 6280B	0.80	31.50	Modified Purpose	Black	800	49.9	Red PE liner with AD logo imprint 130µm	●	●	●	●	●	
AFB 6211B	1.10	43.31	Modified Purpose	Black	770	48.1	Red PE liner with AD logo imprint 130µm	●	●	●	●	●	
AFB 6215B	1.50	59.06	Modified Purpose	Black	770	48.1	Red PE liner with AD logo imprint 130µm	●	●	●	●	●	
AFB 64-Series	This high performance synthetic adhesive bonds to many lower surface energy substrates, including many plastics and power coated paints, plus smooth general purpose substrates, available in white.												
AFB 6464W	0.64	25.20	LSE Purpose	White	800	49.9	White paper liner 130µm	●	●	●	●	●	120°C, 100°C 248°F, 212°F
AFB 6411W	1.10	43.31	LSE Purpose	White	770	48.1	White paper liner 130µm	●	●	●	●	●	

○ Low ● Medium-Low ● Medium ● Medium-High ● High



Product Code	Product Construction							Performance Characteristics					
	Total Caliper		Adhesive System	Foam Color	Density Level		Liner System (µm)	Peel Adhesion on High Surface Energy Substrates	Peel Adhesion on Low Surface Energy Substrates	Shear	Tensile	Solvent Resistance	Temperature Resistance Short Term/Long Term (minutes/hours/ days/weeks)
	(mm)	(mils)			kg/m ³	lb/ft ³							
AFB 66-Series	General purpose adhesive on both sides of firm type foam. Perform good initial tack peel and typically used on metal, glass and high surface energy plastic substrates. Available in grey and white.												
AFB 6625G	0.25	9.84	General Purpose	Grey	750	46.8	Red PE liner with AD logo imprint 130µm	○	◐	◑	◑	◑	160°C, 120°C 320°F, 248°F
AFB 6625W	0.25	9.84	General Purpose	White	790	49.3	White paper liner 130µm	○	◐	◑	◑	◑	
AFB 6640G	0.40	15.75	General Purpose	Grey	750	46.8	Red PE liner with AD logo imprint 130µm	○	◐	◑	◑	◑	
AFB 6660G	0.60	23.62	General Purpose	Grey	750	46.8	Red PE liner with AD logo imprint 130µm	○	◐	◑	◑	◑	
AFB 6680G	0.80	31.50	General Purpose	Grey	750	46.8	Red PE liner with AD logo imprint 130µm	○	◐	◑	◑	◑	
AFB 6610G	1.00	39.37	General Purpose	Grey	750	46.8	Red PE liner with AD logo imprint 130µm	○	◐	◑	◑	◑	
AFB 6610W	1.00	39.37	General Purpose	White	800	49.9	White paper liner 130µm	○	◐	◑	◑	◑	
AFB 6612G	1.20	47.24	General Purpose	Grey	750	46.8	Red PE liner with AD logo imprint 130µm	○	◐	◑	◑	◑	
AFB 6615G	1.50	59.06	General Purpose	Grey	750	46.8	Red PE liner with AD logo imprint 130µm	○	◐	◑	◑	◑	
AFB 6620G	2.00	78.74	General Purpose	Grey	750	46.8	Red PE liner with AD logo imprint 130µm	○	◐	◑	◑	◑	
AFB 66-C Series	Clear foam tapes provide excellent adhesion together with clarity level, suitable for application where clear or colorless is required, general purpose adhesive on both sides are for high surface energy substrates.												
AFB 6625C	0.25	9.84	General Purpose	Clear	1000	62.4	Red PE liner 130µm	○	◐	○	○	●	150°C, 90°C 302°F, 194°F
AFB 6650C	0.50	19.69	General Purpose	Clear	1000	62.4	Red PE liner 130µm	○	◐	○	○	●	
AFB 6664C	0.64	25.20	General Purpose	Clear	1000	62.4	Red PE liner 130µm	○	◐	○	○	●	
AFB 6680C	0.80	31.50	General Purpose	Clear	1000	62.4	Red PE liner 130µm	○	◐	○	○	●	
AFB 6610C	1.00	39.37	General Purpose	Clear	1000	62.4	Red PE liner 130µm	○	◐	○	○	●	

○ Low ◐ Medium-Low ◑ Medium ◒ Medium-High ● High

ABOUT AVERY DENNISON

Avery Dennison (NYSE:AVY) helps make brands more inspiring and the world more intelligent. The company is a global leader in pressure-sensitive technology and materials and retail branding and information solutions. A FORTUNE 500 company with sales of \$6 billion from continuing operations in 2011, Avery Dennison is based in Pasadena, California and has employees in over 60 countries. For more information, visit www.averydennison.com.

ABOUT AVERY DENNISON PERFORMANCE TAPES

Avery Dennison Performance Tapes is a world-class operation focused on developing and manufacturing high-performance pressure-sensitive adhesives and tapes for a broad range of applications in automotive, electronics, building and construction, specialty industrial and personal care markets.

The organization has over 30 years of experience supplying standard and customized pressure-sensitive materials designed to deliver innovative solutions for customers' needs across the globe. Worldwide facilities ensure a global presence supported by sales offices throughout the regions.

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Performance
Tapes

North America
250 Chester Street
Painesville, Ohio
44077 USA
Phone: +1 866-462-8379
Fax: +1 888-358-4469
www.stus.averydennison.com

Europe
Tieblokkenlaan 1
B-2300 Turnhout
Belgium
Phone: +32 (0)14 40 48 11
Fax: +32 (0)14 40 48 55
www.steu.averydennison.com

South America
Rua Francisco Foga, 225
13280-000 Vinhedo
SP Brazil
Phone: +55 19 3876 7736
Fax: +55 19 3876 7682

Asia Pacific
Kunshan, China,
NO. 618 Nanhe Road
Kunshan Economic &
Technological Zone
China 215335
Phone: +86 512 57155001
Fax: +86 512 57155059
www.stap.averydennison.com