



AFB™ 6180GW

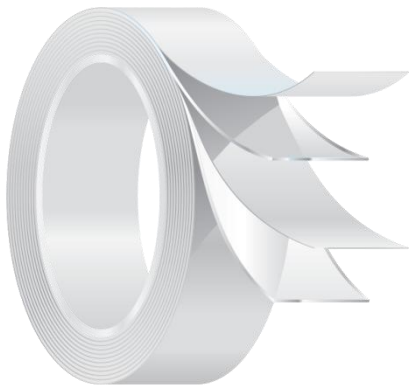
Avery Dennison AFB 6180GW is an 640 µm Grey acrylic foam tape with double coated multipurpose acrylic adhesive on both sides. It is used for bonding a wide range of high and medium surface energy substrates including PC/ABS. This product has excellent adhesion and shear strength, and also resists UV lights and elevated temperatures. AFB 6180GW is suitable for many interior and exterior industrial applications such as nameplate, sign, frame in home appliance, display.

FEATURES:

- Foam tape with viscoelastic acrylic foam carrier
- Closed cell structure
- Acrylic adhesive system
- Easy release polyethylene liner

BENEFITS:

- High adhesion combined with good shear and stress relaxation; absorbs shock and distributes stress evenly
- Good resistance to moisture, UV, high temperature
- Uniform bonding performance
- Can help eliminate the need for mechanical fasteners, drilling or grinding and related clean-up for certain applications
- polyethylene liner helps provide good moisture stability and easier converting with its high tear strength



CONSTRUCTION:

Liner:

Polyethylene Coated White Paper

Adhesive:

Multiple purpose acrylic

Carrier:

Gray acrylic foam core

Adhesive:

Multiple purpose acrylic

AFB6180GW

Adhesive Properties	Typical Values		
	US Mils	mm	Microns (µm)
THICKNESS			
Adhesive + Carrier	31.5	0.80	800
Liner	5.1	0.13	130
Total	36.6	0.93	930

*PSTC-133

PEEL ADHESION

2 mil PET; 180°; 12" / min

Substrate	Lbf / in		N / 25mm	
	20 min	24 hr	20 min	24 hr
Stainless steel	11.61	15.85	52	71

*PSTC-101, ASTM D-3330, STD-10

DYNAMIC SHEAR

2 mil PET; 0.5 in / min; 1" sq (12.7mm/min)

Substrate	Lbf / in ²	kPa
Stainless steel	108.8	750

* ASTM D-1002

NORMAL TENSILE

Aluminum 2in / min (50.8 mm / min) 1" sq (6.5 cm²)

Substrate	Lbf / in ²	kPa
Stainless steel	105.9	730

*ASTM D-897

STATIC SHEAR

2 mil PET; 1" sq (6.5 cm²); 500g@90°C

Substrate	Min to Fail
Stainless steel	>10,000 min

*PSTC-107, ASTM D 3654, STD-9

TEMPERATURES

Min. Application Temp.	50 ° F	10 ° C
Max. Continuous Operating Temp.	192 ° F	90 ° C
Max. Intermittent Operating Temp.	302 ° F	150 ° C

*TEST METHODS

Note: The listed values are typical only and not intended to serve as product specifications

APPLICATION TECHNIQUES

- It is essential with all pressure-sensitive tapes the application surface is clean, dry and free of grease and oil
- Bond strength is dependent upon the amount of adhesive-to-surface contact developed
- Note that different pressure, time and temperature on different (firm / rigid) surface achieves different performance

STORAGE AND SHELF LIFE

The shelf life of the product is one year when stored at 18-22°C / 64-72°F, 30-70% relative humidity and out of direct sunlight, in original packaging.

Please refer to Tapes.AveryDennison.com for complete terms and conditions, including warranty terms, relating to this product. You should periodically review the site as terms and conditions are subject to change without notice.

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Performance
Tapes

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

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

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

For more information on our bonding tapes and adhesive solutions, visit Tapes.AveryDennison.com