



AFB™ 6180G

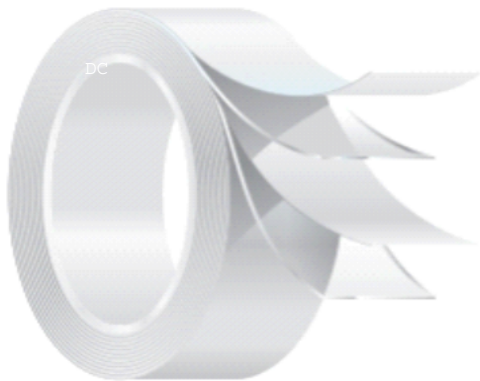
Avery Dennison™ AFB™ 6180G is a grey acrylic foam tape with general purpose acrylic adhesive. This conformable, foamed adhesive enables good lamination and maintains high internal strength on irregular substrates, even when surfaces are mismatched. Offers excellent longer term durability and internal strength, and is suitable for auto-dispensing by converters. Ideal for attachments in large domestic appliances, air-conditioners, housing lamination and nameplate or sign bonding. Suitable industry applications include manufacturing, construction and appliance assembly, including metal or plastic bonding with high internal strength. Suitable for office furniture and telecommunication mounting, decoration and TV frame mounting.

FEATURES

- Foam tape with viscoelastic acrylic foam carrier
- Closed cell structure
- Acrylic adhesive system

BENEFITS

- High adhesion combined with good shear absorbs shock and distributes stress evenly
- Good moisture, UV and high temperature resistance
- Uniform bonding performance
- Helps 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:

Red Polyethylene Liner with Imprinted Avery Logo

Adhesive 1:

Acrylic

Carrier:

Gray Acrylic Foam Core

Adhesive 2:

Acrylic

AFB™ 6180G**Adhesive Properties:****Typical Values**

Thickness	ASTM D3652	US Mils	MM's	Micron's (µm)
Liner		5.1	0.13	130
Carrier & Adhesive		31.5	0.80	800
Total Caliper without Liner:		31.5	0.80	800
Total Caliper:		36.6	0.93	930

Peel Adhesion

ASTM D3330

90° 12 in (300 mm) min @ Room Temp

Substrate			Lbf / in	N / Meter
SS	Liner	20 min dwell	11.9	2,092
SS	Liner	72 hr dwell	16.3	2,865

Dynamic Shear

ASTM D1002

180° 0.5 in (12.7 mm) / min @ Room Temp

Substrate			Lbf / in	N / Meter
SS	Liner	72 hr dwell	108.8	19,160

Normal Tensile

180° 2 in (50.8 mm) / min @ Room Temp

Substrate			Lbf / in	N / Meter
Aluminum	Liner	72 hr dwell	105.9	18,649

Static Shear

ASTM D3654

180° 1" sq (6.5 cm²) 500 g @ 194°F / 90°C

Substrate			Min to Fail	
SS	Liner	Initial	> 10,000	

TEMPERATURES

	° F	° C
Minimum Service Temperature	194° F	90° C
Maximum Service Temperature	302° F	150° C

THE LISTED VALUES ARE TYPICAL AND NOT INTENDED TO SERVE AS PRODUCT SPECIFICATIONS

APPLICATION TECHNIQUES

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

STORAGE / SHELF LIFE

- One year when stored at 64-72°F (18-22°C) / 30-70% relative humidity, out of direct sunlight and 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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