

## TECHNICAL DATA SHEET

**Avery Dennison™ AFB™ 6180W** is white acrylic double coated foam tape with multipurpose acrylic adhesive on both sides. This firm foam adhesive offers strong lamination properties and good weather and environmental resistance. An additional layer of adhesive offers resistance of migration toward plasticizer in vinyl substrates. Suitable for a wide range of applications, including large domestic appliances, nameplate or sign bonding, and control panel 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:** Polyethylene Coated White Paper

**Adhesive 1:** Acrylic

**Carrier:** White Acrylic Foam Core

**Adhesive 2:** Acrylic



Performance  
Tapes

## Adhesive Properties

## Typical Values

THICKNESS (ASTM D3652)		US Mil's	MM's	Micron's (µm)
Liner		6.3	0.16	160
Carrier & Adhesive		31.5	0.80	800
Total Caliper without Liner		31.5	0.80	800
Total Caliper		37.8	0.96	960
<b>PEEL ADHESION (ASTM D3330)</b>				
180° (12") 300 mm / min @ Room Temp				
SUBSTRATE		Lbf / in	US Oz / In	N / Meter
Stainless Steel	20 min dwell	11.3	182	1,990
	72 hr dwell	16.8	270	2,958
<b>LOOP TACK (ASTM D6195)</b>				
6.25 cm <sup>2</sup> (1"sq) 300 mm / min @ Room Temp				
SUBSTRATE		Lbf / in	US Oz / In	N / Meter
Glass	Initial			
<b>DYNAMIC SHEAR (ASTM D897)</b>				
6.25 cm <sup>2</sup> (1"sq) 50 mm / min @ Room Temp				
SUBSTRATE			kPa	
Aluminium	72hrs dwell		780	
<b>STATIC SHEAR (ASTM D3654)</b>				
6.25 cm <sup>2</sup> (1"sq) 1000 g @ Room Temp				
SUBSTRATE		Min to Fail		
Stainless Steel	72hrs dwell	>10,000		
TEMPERATURES			°F	°C
Minimum Application Temperature			50 °F	10 °C
Minimum Service Temperature			-40 °F	-40 °C
Maximum Service Temperature			302 °F	150 °C

Note: The listed values are typical only 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

Two years when stored at 64-72 °F (18-22 °C) / 30-70 % relative humidity, out of direct sunlight and in original packaging.

For more information on our bonding tapes and adhesive solutions, call us:

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[www.tapes.averydennison.com](http://www.tapes.averydennison.com)