



## FM 9215B

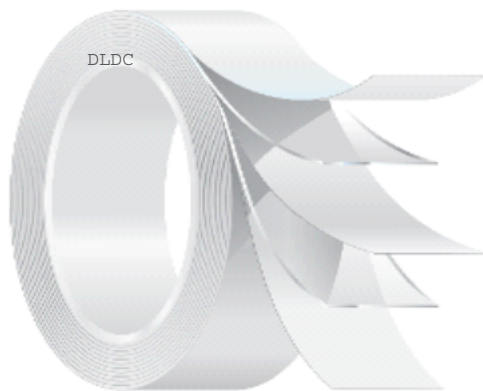
Avery Dennison™ FM 9215B is a 6 mil black foam tape designed for hi-end mounting applications in smart devices and electronics such as mobile phone assembly window/lens bonding. FM 9215B is suitable for industrial applications where high temperature, UV resistance, good moisture and dimensional stability are required. The thin tape caliper is ideal for thinner designs.

### FEATURES

- Crosslinked elastomeric adhesive
- Foamed elastomeric carrier
- Tape thickness of 5.9 mil / 150 um

### BENEFITS

- High adhesion on a variety of substrates, including low surface energy substrates, like PE
- Excellent cohesion provides high dynamic shear and push out force
- High temperature and UV resistance
- Good moisture resistance and dimensional stability
- Thin caliper of the tape makes it suitable for thinner design concepts



### CONSTRUCTION:

#### Liner 1 (Tight):

Polyester

#### Adhesive 1:

Crosslinked Elastomer

#### Carrier:

Foamed Crosslinked Black Elastomer

#### Adhesive 2:

Crosslinked Elastomer

#### Liner 2 (Easy):

Polyester

**FM 9215B****Adhesive Properties:**

| Thickness                    | ASTM D3652 | Typical Values |      |               |
|------------------------------|------------|----------------|------|---------------|
|                              |            | US Mils        | MM's | Micron's (µm) |
| Liner                        |            | 2.0            | 0.05 | 51            |
| Adhesive - Unwind            |            | 2.3            | 0.06 | 58            |
| Carrier                      |            | 1.4            | 0.04 | 36            |
| Adhesive - Liner             |            | 2.3            | 0.06 | 58            |
| Liner 2 Easy                 |            | 2.0            | 0.05 | 51            |
| Total Caliper without Liner: |            | 6.0            | 0.15 | 145           |
| Total Caliper:               |            | 10.0           | 0.25 | 152           |

**Peel Adhesion**

ASTM D3330

180° 12 in (305 mm) / min

| Substrate     |       |              | Lbf / In | N / Meter |
|---------------|-------|--------------|----------|-----------|
| SS            | Liner | 20 min dwell | 7.7      | 1,356     |
| SS            | Liner | 24 hr dwell  | 7.7      | 1,356     |
| ABS           | Liner | 20 min dwell | 5.9      | 1,039     |
| ABS           | Liner | 24 hr dwell  | 6.3      | 1,109     |
| Polycarbonate | Liner | 20 min dwell | 6.8      | 1,197     |
| Polycarbonate | Liner | 24 hr dwell  | 8.3      | 1,462     |

**Dynamic Shear**

ASTM D1002

180° 2 in (50.8 mm) / min

| Substrate |       |             | Lbf / In | N / Meter |
|-----------|-------|-------------|----------|-----------|
| SS        | Liner | 24 hr dwell | 181.0    | 31,874    |

**Static Shear**

ASTM D3654

180° 1" sq (6.5 cm<sup>2</sup>) 2500 g

| Substrate |       |             | Mins to Fail |
|-----------|-------|-------------|--------------|
| SS        | Liner | 24 hr dwell | > 10,000     |

**TEMPERATURES**

|  | ° F    | ° C    |
|--|--------|--------|
| Minimum Application Temperature            | 50° F  | 30° C  |
| Maximum Continuous Operating Temperature   | -40° F | -40° C |
| Maximum Intermittent Operating Temperature | 212° F | 100° 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](http://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