



## FL 1002

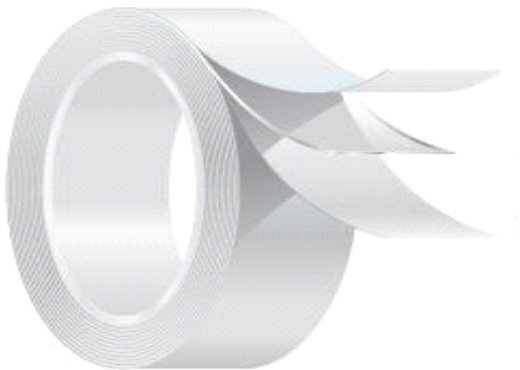
Avery Dennison™ FL 1002 is a 1.9 mil single coated foil with general purpose rubber adhesive. It bonds well to low, medium, and high surface energy plastics and metals. FL 1002 is suitable for die-cut shapes, shielding, moisture and vapor barrier sealing components or lamination to insulation materials.

### FEATURES

- Single coated construction
- Dead soft aluminum foil facestock
- General purpose rubber adhesive
- Strong densified kraft liner

### BENEFITS

- Conformable foil bonds to flat or contoured surfaces
- Strong bond to a variety of low, medium and high surface energy materials
- Two-year warranty



### CONSTRUCTION:

**Liner:**

60# White Kraft

**Adhesive:**

Rubber

**Carrier:**

Foil

**FL 1002**

| Adhesive Properties:         |            | Typical Values |      |               |
|------------------------------|------------|----------------|------|---------------|
| Thickness                    | ASTM D3652 | US Mils        | MM's | Micron's (µm) |
| Liner                        |            | 3.2            | 0.08 | 81            |
| Adhesive                     |            | 1.8            | 0.05 | 46            |
| Carrier                      |            | 1.9            | 0.05 | 48            |
|                              |            |                |      |               |
| Total Caliper without Liner: |            | 3.7            | 0.09 | 94            |
| Total Caliper:               |            | 6.9            | 0.18 | 175           |

| Peel Adhesion                       |             | ASTM D3330 |           |  |
|-------------------------------------|-------------|------------|-----------|--|
| 180° 12 in (300 mm) min @ Room Temp |             |            |           |  |
| Substrate                           | 72 hr dwell | Lbf / in   | N / Meter |  |
| SS                                  |             | 11.4       | 2,008     |  |
|                                     |             |            |           |  |
|                                     |             |            |           |  |
|                                     |             |            |           |  |
|                                     |             |            |           |  |
|                                     |             |            |           |  |
|                                     |             |            |           |  |
|                                     |             |            |           |  |
|                                     |             |            |           |  |
|                                     |             |            |           |  |

| Loop Tack                             |         | ASTM D6195 |           |  |
|---------------------------------------|---------|------------|-----------|--|
| 180° 20 in (508 mm) / min @ Room Temp |         |            |           |  |
| Substrate                             | Initial | Lbf / in   | N / Meter |  |
| SS                                    |         | 3.7        | 652       |  |
|                                       |         |            |           |  |
|                                       |         |            |           |  |
|                                       |         |            |           |  |
|                                       |         |            |           |  |
|                                       |         |            |           |  |
|                                       |         |            |           |  |
|                                       |         |            |           |  |
|                                       |         |            |           |  |
|                                       |         |            |           |  |

| Static Shear                            |             | ASTM D3654  |  |  |
|---|-------------|-------------|--|--|
| 180° 1" sq (6.5 cm2) 1000 g @ Room Temp |             |             |  |  |
| Substrate                               | 24 hr dwell | Min to Fail |  |  |
| SS                                      |             | > 10,000    |  |  |
|   |             |             |  |  |
|   |             |             |  |  |
|   |             |             |  |  |
|   |             |             |  |  |
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|   |             |             |  |  |
|   |             |             |  |  |
|   |             |             |  |  |

| TEMPERATURES                    | ° F    | ° C    |
|---------------------------------|--------|--------|
| Minimum Application Temperature | 50° F  | 10° C  |
| Minimum Service Temperature     | -40° F | -40° C |
| Maximum Service Temperature     | 160° F | 70° 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**

- Two years 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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