

TECHNICAL DATA SHEET

Avery Dennison™ FT 77100 is a double coated paper-based nonwoven tape with a pure acrylic adhesive, and a glassine, natural liner with recycled content. Offering low VOC, fogging performance, and strong resistance to chemicals, plasticizers, UV, and moisture, it ensures reliable adhesion and broad temperature compatibility. It's ideal for precision assembly and small complex die-cutting or water jet applications that require stable and easy converting tape.

FEATURES

- Advanced pure acrylic adhesive
- APEO free adhesive
- Low VOC and Fogging performance
- Easy release glassine liner
- Broad range of service temperatures

BENEFITS

- Excellent resistance to solvents, chemicals, plasticizers, temperature and UV light
- Good resistance to moisture
- Good conformability to flat or curved surfaces
- Immediate initial adhesion for part placement
- Excellent water jet and die cutting characteristics



CONSTRUCTION

Liner: Glassine, natural liner with recycled content

Adhesive: Pure acrylic

Carrier: Paper-based nonwoven

Adhesive: Pure acrylic



Performance
Tapes

Adhesive Properties

Typical Values

| THICKNESS (ASTM D3652) | | US Mils | MM's | Micron's (µm) |
|---|--------------|-----------------|------------|---------------|
| Liner | | 2.95 | 0.075 | 75 |
| Adhesive + Carrier | | 5.94 | 0.151 | 151 |
| Total Caliper | | 8.90 | 0.226 | 226 |
| PEEL ADHESION (ASTM D3330) | | | | |
| 180° (12") 300 mm / min @ Room Temp | | | | |
| SUBSTRATE | | Lbf / in | US Oz / In | N / Meter |
| Stainless Steel | 20 min dwell | 3.04 | 49 | 532 |
| | 24 hr dwell | 4.07 | 65 | 712 |
| Polycarbonate | 20 min dwell | 5.32 | 85 | 932 |
| | 24 hr dwell | 5.25 | 84 | 920 |
| Painted Steel | 20 min dwell | | | |
| | 24 hr dwell | | | |
| Polypropylene | 20 min dwell | 1.48 | 24 | 260 |
| | 24 hr dwell | 1.62 | 26 | 284 |
| LOOP TACK (ASTM D6195) | | | | |
| (12") 300 mm / min @ Room Temp | | | | |
| SUBSTRATE | | Lbf / in | US Oz / In | N / Meter |
| SS | Initial | 3.17 | 51 | 556 |
| STATIC SHEAR (ASTM D3654) | | | | |
| 1"sq (6.25 cm ²) 1000 g @ Room Temp | | | | |
| SUBSTRATE | | Minutes to Fail | | |
| Stainless Steel | Initial | > 10000 | | |
| TEMPERATURES | | °F | °C | |
| Minimum Application Temperature | | 50 °F | 10 °C | |
| Minimum Service Temperature | | -40 °F | -40 °C | |
| Maximum Service Temperature | | 392 °F | 200 °C | |

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 / 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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Asia Pacific: +86 512 57155001

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www.tapes.averydennison.com