



FM 9220B

Avery Dennison FM 9220B is a black foam tape designed for hi-end mounting applications in smart devices and electronics such as mobile phone assembly window/lens bonding. FM 9220B 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 7.9 mil / 200 um

BENEFITS:

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



CONSTRUCTION:

Liner 1:

Clear PET

Adhesive:

Crosslinked Elastomer

Carrier:

Foamed Crosslinked Black Elastomer

Adhesive:

Crosslinked Elastomer

Liner 2:

Clear PET

FM 9220B

| Adhesive Properties | Typical Values | | |
|---------------------|----------------|------|--------------|
| | US Mils | mm | Microns (µm) |
| THICKNESS | | | |
| Adhesive + Carrier | 7.9 | 0.20 | 200 |
| Liner 1 | 2.0 | 0.05 | 50 |
| Liner 2 | 2.0 | 0.05 | 50 |
| Total | 11.9 | 0.30 | 300 |

*PSTC-133

PEEL ADHESION

2 mil PET; 180°; 12" / min

| Substrate | Lbf / in | | N / 25mm | |
|-----------------|----------|-------|----------|-------|
| | 20 min | 24 hr | 20 min | 24 hr |
| Stainless steel | 8.3 | 8.5 | 36 | 37 |
| Polycarbonate | 7.2 | 8.1 | 31 | 35 |
| ABS | 6.4 | 6.8 | 28 | 30 |

*PSTC-101, ASTM D-3330, STD-10

Dynamic SHEAR

2 mil PET; 0.5"/min

| Substrate | Lbf / in ² | KPa |
|-----------------|-----------------------|-------|
| | 72 hr | 72 hr |
| Stainless steel | 191 | 1313 |

* ASTM D-1002

STATIC SHEAR

Foil; 1" sq (6.5 cm²); 2500 g

Min to Fail

>10,000

*PSTC-107, ASTM D 3654, STD-9

TEMPERATURES

| | | |
|-----------------------------------|---------|---------|
| Min. Application Temp. | 50 ° F | 10 ° C |
| Max. Continuous Operating Temp. | 212 ° F | 100 ° C |
| Max. Intermittent Operating Temp. | 248 ° F | 120 ° C |

*TEST METHODS

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 AND SHELF LIFE

The shelf life of the product is two years when stored at 18-22°C / 64-72°F, 30-70% relative humidity and out of direct sunlight, 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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For more information on our bonding tapes and adhesive solutions, visit Tapes.AveryDennison.com