



1. Product Name

MB-10A Sealant Tape

2. Manufacturer

GSSI Sealants, Inc.
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3. Product Description

GSSI Sealants, Inc., is an independent, family owned manufacturer of quality elastomeric butyl rubber sealant tapes. For over 30 years, GSSI has provided standard and custom products to address the needs of a variety of industries, including MB-10A Sealant Tape for metal buildings and refrigeration and MH-200 Sealant Tape, MH-19 Black Rubber Tape and EZ Trim for RVs, modular homes and mobile homes.

BASIC USE

MB-10A is a premier elastomeric butyl rubber sealant designed to meet or exceed requirements for metal buildings, as well as window glazing, air conditioning and refrigeration. It is extruded onto silicone coated paper for easy application and is packaged in sturdy cartons for convenient export and job site storage. Custom sizes and lengths are available.

COMPOSITION & MATERIALS

MB-10A Sealant Tape is a blend of isobutylene, isoprene, butene and mineral filler that meets or exceeds organizational test standard requirements, as well as federal and military regulations.

TYPES, SIZES

MB-10A has an extensive inventory of standard sizes:

- Widths - 3/16" (4.8 mm), 1/4" (6.4 mm), 3/8" (9.5 mm), 1/2" (12.7 mm), 3/4" (19 mm), 7/8" (22 mm), 1" (25.4 mm), 2" (51 mm), 3" (76 mm), 4 1/2" (114 mm)
- Lengths - 1' - 50' (0.30 - 15 m)

- Thicknesses - 1/8" (3.17 mm), 3/16" (4.8 mm), 3/32" (2.38 mm), 7/32" (5.6 mm)
- Double, Tri and Triple beads are available
- Custom widths and roll lengths are available; contact GSSI, Inc., for information

COLOR

MB-10A Sealant Tape is a gray color.

BENEFITS

- Exceptional adhesive and cohesive strength
- Superior low temperature compressibility
- Effectively handles normal building movement
- Withstands extreme temperature ranges
- No cold flow
- Contains anti-oxidants, fungicides and anti-bacterial agents

LIMITATIONS

- Not intended for use with non-mechanically fixed joints
- Not intended to be used if seal will be continuously submerged in water
- Will not adhere properly to surfaces that are wet and/or dirty

4. Technical Data

APPLICABLE STANDARDS

American Architectural Manufacturer's Association (AAMA)

- AAMA 804.1 Voluntary Specifications and Test Methods for Sealants
- AAMA 807.1 Standard for Cured Rubber Back Bedding Glazing Tape

ASTM International (ASTM)

- ASTM C771 Standard Test Method for Weight Loss After Heat Aging of Preformed Sealing Tapes
- ASTM D217 Standard Test Methods for Cone Penetration of Lubricating Grease
- ASTM D750 Standard Test Method for Rubber Deterioration Using Artificial Weathering Apparatus
- ASTM D792 Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
- ASTM D897 Standard Test Method for Tensile Properties of Adhesive Bonds

U.S. Department of Labor, Occupational Safety & Health Administration (OSHA), Regulation Standards - 29 CFR, 1910.1200

U.S. Food and Drug Administration (FDA) Indirect Food Additives: Adhesives and Components of Coatings, Sec. 175.125 Pressure-sensitive adhesives

National Association of Architectural Metal Manufacturers (NAAMM)

APPROVALS

MB-10A Sealant tape meets or exceeds requirements established for the following:

- AAMA 804.1 and 807.1
- FDA Regulation 175.125
- Federal Spec TT-C 1796A Type II Class B
- Military Spec MIL-C 18969B Type II Class B
- N.A.A.M.M. SS-1C-68

PHYSICAL/TECHNICAL PROPERTIES

See Table 1.

ENVIRONMENTAL CONSIDERATIONS

This product is not hazardous as defined in OSHA Hazard Communication Standard 29 CFR 1910.1200.

5. Installation

PREPARATORY WORK

Deliver products in the manufacturer's original, unopened, undamaged containers, with identification labels intact. Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

Verify that site conditions are acceptable for installation. All surfaces to be sealed should be free of dust, dirt, oil and moisture before applying sealant. Do not proceed with installation until unacceptable conditions are corrected.

For best results apply in dry conditions above 40 degrees F (4 degrees C). Avoid temperatures below 40 degrees F (4 degrees C), as atmospheric condensation on surfaces may inhibit adhesion.

METHODS

Apply MB-10A from the roll directly to the surface. Press the sealant through the silicone release paper with a smooth, even hand motion.

For metal roofing and siding applications, place the sealant under the fastener to prevent wind blown rain from leaking through the fastener holes.

BUILDING CODES

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

6. Availability & Cost

Contact GSSI Sealants, Inc., for cost and availability.

Table 1 PHYSICAL/CHEMICAL PROPERTIES	
Test & Method	Typical Results
ASTM D217 Cone penetration @ 77 degrees F (25 degrees C)	55
ASTM C771 Non-volatiles, % weight @ 212 ± 3 degrees F (100 ± -2 degrees C)	99+
ASTM D792 Weight/gal @ 77 degrees F (weight/liter @ 25 degrees C) Specific gravity @ 77 degrees F (25 degrees C)	12.9 lb (1.5 kg) 1.55
Service temperature range	-60 to 275 degrees F (-51 to 135 degrees C)
Sag, 3 weeks @ 160 degrees F (71 degrees C)	None
Static water head test to 5" (MBMA ice damming)	Pass
ASTM C765 Cold temperature flexibility 1/2" (12.7 mm) Mandel bend @ -60 degrees F (-51 degrees C)	No cracking or loss of adhesion
Webbing and elongation: @ 77 degrees F (25 degrees C) @ 32 degrees F (0 degrees C)	1050% + 3050% +
Adhesive/cohesive failure mode @ 77 degrees F (25 degrees C)	3% / 97%
ASTM D897 Tensile strength, psi @ 77 degrees F (25 degrees C)	25
ASTM D750 Weatherability - 1000 hours in QUV weatherometer Cycle of 8 hours UV @ 150 degrees F (65 degrees C); 4 hours of condensation @ 104 degrees F (40 degrees C)	No discoloration, cracking, crazing or loss of adhesion

7. Warranty

Complete warranty terms and conditions are available from the manufacturer. For details, consult GSSI Sealants, Inc..

8. Maintenance

No special maintenance is required for properly applied products.

9. Technical Services

Technical assistance, including more detailed information, product literature, test results, project lists and assistance in preparing project specifications is available by contacting GSSI Sealants, Inc.

10. Filing Systems

- Reed First Source
- MANU-SPEC®
- Additional product information is available from the manufacturer upon request.