Product Data Sheet

BISCO® MF1® Silicone Product Availability

BISCO® MF1® Silicones provide reliability, longevity, and fire resistance. Available in three firmness ranges, MF1 foam allows engineers to optimize designs using a block of material. This material utilizes proprietary silicone technology to deliver a product which maintains firmness and thickness longer than traditional urethane foams.

The following guidelines are provided as a reference for designers and buyers to quickly understand MF1 foam product availability for their specific application needs.

BLOCK DIMENSIONS

Standard block size is 6451 X 1219 X 152 mm (254 X 48 X 6 inches). Available pricing can be found on the BISCO Silicones price page.

MF1 foams can be manufactured to various sizes within the maximum size stated below.
These are nonstandard RFQ items.

MAXIMUM BLOCK SIZE	RECTANGULAR	SQUARE
Metric mm (English inch)	1473.2 X 711 X 178 (58 X 28 X 7)	1016 X 1016 X 178 (40 X 40 X 7)

SHEET DIMENSIONS

- Sheets can be cut into sizes up to the respective max block size length/width for each foam grade.
- Sheets can be cut to any thickness ranging from 6.35 mm (0.250 in) up to the respective maximum block size height.
- Cutting charges may apply.

TESTING AND CONDITIONING

- Each pour is tested for IDF by removal of the top and bottom skins to create a flat surface. Pour amounts can vary based on bun size: 4, 6, 8 and 10 buns.
- All buns go through a conditioning crush.

PURCHASE TRIMMING DEFINITIONS

UAS-Untrimmed all sides; sold in an uncut bun with all skins on and domed top. One test pour will be sent as TTB with each order.
TTB-Top and bottom skin surface is removed which provides a flat top and bottom surface.
TAS-Trimmed all sides making a thick block of sheeting with no skin surfaces.

BISCO® MF1® Silicone Product Availability, cont'd

TTB Dimensional Tolerance

NOMINAL THICKNESS	TOLERANCE
	mm (inches)
ALL	+38.1/-00.0 (+1.500/-0.000)

TAS Dimensional Tolerances

NOMINAL THICKNESS	TOLERANCE
mm (inches)	mm (inches)
6.35-76.2 (0.250-3.000)	+3.18/-1.6 (+0.125/-0.063)
>76.2 (>3.000)	+4.78/-3.18
LENGTH & WIDTH	**TOLERANCE**
0.0-304.8 (0.000-12.000)	+6.35/-0.0 (+0.250/-0.000)
>304.8-609.6 (>12.000-24.000)	+12.7/-0.0 (0.500/-0.000)
>609.6-1219-2 (>24.000-48.000)	+19.05/-0.0 (+0.750/-0.000)
>1219.2 (>48.000)	25.4/-0.0 (+1.000/-0.000)

UAS Dimensional Tolerance

This material is sold as an untrimmed bun with all skins attached, so it does not have any dimensional tolerances. The bun will be built to obtain the usable dimensions within the bun. Typically, the untrimmed bun will be approximately 50mm (2") more in width, length, and height than the usable dimensions ordered.

Nomenclature Example:

MF135WHT 8.500x36.000x51.000 TTB

Product family = MF1

Product Series = 35

Color = WHT

Dimensions = 8.500x36.000x51.000

Trimming instructions = TTB

- If not on the price pages, product is quoted via RFQ.
- Product is only available in WHT color.
- Dimensions are specified in inches.
    - If the dimensions are requested in integers (no decimals) the dimensions can be represented as whole numbers.
    - If a decimal is requested, or if converting from metric to imperial units, the dimension is not a whole number, the dimension shall be listed with three significant digits (example: 8.01" should be listed as 8.010")
- Product only has three trimming instructions: TTB (Trimmed Top and Bottom), UAS (Untrimmed all Surfaces), or TAS (No other trimming instructions will be accepted.
- It is no longer used to describe the product as bun, sheet, or block.

Cell Sizes: are variable due to the method of manufacture and Rogers Corporation cannot provide an accurate PPI for this product. Due to the open-cell nature of the product, please make sure the material is fit for your application, knowing there may be some variability in the cell sizes.

Voids: are inherent to MF1 products/manufacturing process. As a guideline, MF1 products which exhibit five or more voids that are ≥ 0.500" in diameter within a one square foot area would be rejected.

For more information and to request a sample, please contact our team of experts at **solutions@rogerscorp.com**