



BELLOFRAM SILICONES

Industry Supplier of Closed Cell Silicone Sponge

**Bulk Extrusion Footage · Bulk Sheet Products · Small to Medium Runs ·
The ONLY Source for Sheets Skived from Buns**

With expertise that reaches back more than 50 years, we've focused on just one thing: closed cell silicone sponge. Our silicone is at the heart of performance, offering superior, advanced barrier protection that fits exacting standards to make products safer, more efficient, and perform better.

We're the only ones who make silicone sheet skived from buns. These can be supplied in thicknesses from 0.125 inch to 2.00 inches or buns can be skived into sheets using a customer's own equipment. Because Bellofram silicone sponge sheeting is skived from buns, it is skinless and able to meet some of the same density levels of polyurethane foam.

Standard sheets come 36" x 36" in thicknesses from .063 inch to 2 inches.

Our silicone is available in a range of grades and colors, with additives including flame retardant and fluorosilicone. The formulation and construction of these sheets allow for continuous operation of materials over a wide temperature range of -85° F to +400° F, with outstanding recovery after compression. That beats polyurethane, which wilts under high temperatures.

We can extrude complex geometries for bonded gaskets and have the ability to vulcanize seals or sell bulk extrusion to be cut and vulcanized by others. Our solid silicone rubber extruded materials can be manufactured to meet superior physical properties such as high-tear, high-flex, and low-temperature resistance per A-A-59588. They are available in FDA and NSF/ANSI 51 versions approved for all types of food contact as well as commercial grade ASTM D2000 that are maintenance-free in less demanding environments.

There's no need to buy silicone 10,000 feet at a time. Small and medium batches are our specialty. Minimum runs are often 100- to 500-feet and usually a single sheet, depending on color and density.

Our own in-house mixing and specialty rubber compounds give you the choice of materials with a wide compression deflection rating, from ASTM D1056-2D1 soft density to ASTM D1056-2D5 extra firm density. The self-forming skin enhances product resistance to water absorption and protects from contaminants.

For converters, it adds up to greater flexibility, higher performance, and increased profitability from being able to order exactly the amount of silicone you need.

ASTM-D1056 Hardness

Our customers are always searching for improvements that will make them safer, more efficient, and perform better. We offer the lightest, high-consistency, closed-cell silicone rubber sheeting material available. It contains truly closed cells, as determined by the stringent ASTM D1056 water absorption under vacuum method, eliminating wicking.

There is an ASTM D1056 hardness version of the standard sheet with enhanced fire retardant additives to meet UL 94 V-0 specifications. A second version has fluorosilicone sponge properties, meeting the requirements of AMS3323. With these and other available options, our silicone foam rubber sponge sheets cover a wide range of demanding physical, temperature, and chemical environments.

BMS Requirements

Bellofram is a certified supplier of Boeing Material Specification (BMS) 1-23 and all grades of BMS 1-60. We offer a flame-retardant version in each density range to make sealing possible in extreme environments. For applications where FDA compliance is required, we produce a fully certified NSF/ANSI 51 version using FDA ingredients. Available in any color.

The Strength of Bellofram Elastomers Group

Bellofram Silicones is a division of the Bellofram Group of Companies and a member of the Bellofram Elastomers Group. We have taken the very best technology, chemistry, and rubber know-how from legacy brands Mold Ex, MTI Specialty Silicones, and Groendyk Manufacturing to become a one-stop shop for sealing, gasket, and insulation requirements.

Other benefits include:

- In-house manufacturing excellence.
- Full in-house die-making capabilities to produce virtually any shape, profile, or density to meet exacting specifications.
- In-house mixing for a cost-competitive advantage in producing a wide range of closed cell silicone sponge materials.
- Made in the U.S.A. for fast delivery.
- Pantone color matching.