

# BISCO® MS Bun Series Medical and Life Science Grade Cellular Silicones

BISCO® MS bun series are open-cell silicone foams cast into a block form. These are platinum-cured materials specifically engineered to meet the demands of life science applications. Low density and softness paired with excellent acoustic absorption and vibration isolation properties make these materials ideal for cushioning, acoustic, and vibration applications. They also have a superior compression set, good tear strength and durability, and can easily be skived to desired thicknesses.

## Features & Benefits:

- High acoustic and sound absorption for critical medical devices
- Provides great vibration isolation due to low natural frequency
- Resistance to UV, ozone, sanitizers, and extreme temperatures for consistent performance across many environments
- Good tear strength and durability
- Compliant to the requirements of 21CFR177.2600

PROPERTY	TEST METHOD	VALUE	
<b>PHYSICAL</b>		MS80 Very Soft	MS96 Soft
Color	Visual	White	White
Density, kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	ASTM D1056	80 (5.0)	96 (6.0)
Compression Force Deflection, kPa (psi)	ASTM D1056	1.4 - 8.3 (0.2 - 1.2)	2.8 - 10.3 (0.4 - 1.5)
Compression Set, %	ASTM D1056 100°C (212°F) / 22 hrs / 50%	1.5	1.5
Tensile Strength, kPa (psi)	ASTM D412	86 (12.5)	86 (12.5)
Elongation, %	ASTM D412	45	45
Tear Strength, PPI	ASTM D624	>2.0	>2.0
<b>THERMAL</b>			
Thermal Conductivity, W/m K Uncompressed	ASTM C518	0.036	0.037
Low Temperature Flex -55°C (-67°F)	ASTM D1056	Pass	Pass
Recommended Constant Use, °C (°F)		200 (392)	200 (392)
<b>ELECTRIC</b>			
Dielectric Breakdown	ASTM D149 Method C: Slow Rate of Rise (500 v/s)	43	45
Volume Resistivity	ASTM D257	7.0 x 10 <sup>13</sup>	7.0 x 10 <sup>13</sup>
<b>CERTIFICATIONS/ADDITIONAL TESTING</b>			
FDA†	CFR177.2600	Compliant	Compliant

†Statement of FDA compliance is based solely on the following: MS foams (i) are compounded and cured under conditions of good manufacturing practice; and (ii) have been subjected to annual extraction testing in accordance with FDA Regulation 21 CFR 177.2600 paragraphs (e) and (f) and found to meet all extractives limitations, both of which are criteria set forth in 21 CFR 177.2600 as necessary for rubber articles intended for repeated use in those areas specified in the regulation.

To order BISCO materials, please contact our Sales Specialists at 860.928.3622 or via email at EMS\_CT\_cust\_serv@rogerscorporation.com