

expansil™

Silicone Sponge Extrusions

BMS 1-60 A

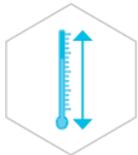
Silicone
Engineering Ltd

The BMS 1-60 Grade A is a closed cell silicone sponge officially approved to Boeing Material Specification BMS 1-60.

Formulated for flame resistance, it is typically used in Aerospace and Defense applications such as vibration isolation, sealing, gap fillers, thermal protection and insulation.



BENEFITS



Temperature range

-75°C to 230°C
(-76°F to 446°F)



Environmental resistance

Ozone, UV and weather resistant



Flame retardant

UL94HB
(Not Listed)



Long life service

vs
other elastomers

AVAILABILITY

Tubes, Cords, Profiles, Strips & Sections

Pressure Sensitive Adhesive (PSA)

Joined Rings & Gaskets

Colours: Blue/Grey (as per standard)

ACCREDITATIONS

BMS 1-60

Boeing Material Specification

UL94HB

UL94 Horizontal Burn
Flammability Test
(Not Listed)

**FAR 25
(Vertical)**

Flame Test for Aerospace
Applications

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MECHANICAL PROPERTIES

Property	Units	Typical Value	Test Method
Density (*Measured on 25mm cord sample)	kg/m ³ (lb/ft ³)	205 (12.8)	BMS 1-60 8.2 (ASTM D297)
Compression Force Deflection (CFD) 25%	kPa (psi)	25.5 (3.7)	BMS 1-60 8.1 (ASTM D1056)
Elongation to Failure	%	432	BMS 1-60 8.5 (ASTM D412)
Compression Set 25%, 22hrs @ 212°C (100°C)	%	14	BMS 1-60 8.4 (ASTM D1056)
Water Absorption	%	1.1	BMS 1-60 8.3
Flammability			
Extinguish Time	Sec	6.7	BMS 1-60 8.6 (BSS7230)
Drip Extinguish Time	Sec	0	
Max Burn Length	Inch	1.0	BMS 1-60 8.6 (BSS7230)
High Temperature Stability 70hrs @ 350°F (177°C)	N/A	PASS	BMS 1-60 8.7 (ASTM D573)

CAPABILITIES

Thickness mm (inches)	Width mm (inches)	Length m (ft)
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GENERAL CHARACTERISTICS

Test	Typical Value	Standard
Brittle Point	-80°C (112°F)	ASTM D746
Limiting Oxygen Index	24%	BS 2782 Part 1
Thermal Conductivity	6.4x10 ⁻² W.m ⁻¹ .K ⁻¹	BS 874 Part 2
Radiation Resistance	>10 ⁵ Grays (10 ⁷ Rads) typical	

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