

# expansil™

## Silicone Sponge Extrusions

**BMS 1-60 B**

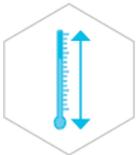
**Silicone**  
Engineering Ltd

The BMS 1-60 Grade B 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



#### 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 (Horizontal)**

Flame Test for Aerospace Applications



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## MECHANICAL PROPERTIES

Property	Units	Typical Value	Test Method
Density (*Measured on 25mm cord sample)	lb/ft <sup>3</sup>	292 (18)	BMS 1-60 8.2 (ASTM D297)
Compression Force Deflection (CFD) 25%	kPa (psi)	54.5 (7.9)	BMS 1-60 8.1 (ASTM D1056)
Elongation to Failure	%	135	BMS 1-60 8.5 (ASTM D412)
Compression Set 25%, 22hrs @ 212°C (100°C)	%	8	BMS 1-60 8.4 (ASTM D1056)
Water Absorption	%	0.4	BMS 1-60 8.3
<b>Flammability</b>			
Extinguish Time	Sec	2	BMS 1-60 8.6 (BSS7230)
Drip Extinguish Time	Sec	0	
Max Burn Length	Inch	0.4	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)

## 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 <sup>-2</sup> W.m <sup>-1</sup> .K <sup>-1</sup>	BS 874 Part 2
Radiation Resistance	>10 <sup>5</sup> Grays (10 <sup>7</sup> Rads) typical	

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