

## Specification Sheet / 01

### A336 BF1000 Silicone Rubber Sponge



#### General Description

Compressibility, softness, and durability allow BF-1000 to adapt to various environments making it an ideal choice for sealing outdoor enclosures, protecting electronics from shock and heat, and providing cushioning or vibration isolation for various applications. BF-1000 is available in various thicknesses and manufactured in roll form to allow fabricators to easily convert the material to the proper dimensions.

#### Features and Benefits

Excellent memory and low stress relaxation reduces maintenance costs associated with gasket failures due to compression set and softening.

Resistance to ultraviolet light, ozone, extreme temperatures, and flame enables consistent performance in all environments. Compact cell structure and unique formulation provides enhanced sealing performance to resist penetration of fine particles and wind-driven rain.

Property	Test Method	Typical Value
Density, lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	ASTMD1056	22(352)
Compression Force deflection psi (kpa)	Force measured at 25% deflection ASTMD1056	9 (62)
Compression set % max	ASTMD1056 test D @158°F (70°C), 22 hours	< 1
Compression set % max	ASTMD1056D @212 °F (100 °C) , 22 hours	< 5
Compression set % max	ASTMD1056 test d @212 °F (100°C) 22 hours	< 5
Tensile strength ,psi (kPa)	ASTM d 412	45 (310)
Elongation %	ASTM d 412	80

#### Flamability & outgassing

Flame resistance	UL 94	Listed V-0 and HF-1
Flame spread index (L?)	ASTM E 162	< 25
Smoke Density (Ds)	ASTME662 Tested @ 4.0 minutes	< 50
Smoke Density (Ds)	ASTME662 Tested @ 1.5 minutes	< 20
Toxic Gas Emmisions	SMP-800C	Pass

#### Environmental Properties

Water Absorption	Internal: 24 hrs @room temp	1.40%
UV Resistance	SAE j-1960	No Degredation
Ozone Effect Rating	ASTM D 1171	0 (no cracks)
Corrosion Resistance	AMS-3568	Pass
Meets requirements of FDA CFR 177.2600 for food contact		Yes Grey and Black only

#### Electric & Thermal Properties

Dielectric Constant	ASTM D 150	1.42
Dielectric Strength	ASTM D 149, Volts/mil	91
Dry Arc Resistance	ASTM D495, Seconds	92
Volume Resistivity, Ohm-cm	ASTM D 257	10 <sup>^14</sup>
Thermal Conductivity, BTU in/hr/ft <sup>2</sup> /°F (w/m °K)	ASTM C 518	0.63 (0.09)

Polymer Works, Hope Street  
Dudley, West Midlands DY2 8RS

t: 01384 252555  
f: 01384 252373  
e: technical@advancedseals.co.uk

Specification Sheet / 02  
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Temperature Resistance		
Low Temperature Flex at -67°F (-55°C)	ASTM D1056	Pass
Recommended Use Temperature °F (°C)	SAE J-2236	-67 to 392 (-55 to 200)
Recommended Intermittent High Temperature Use °F (°C)	Internal	482 (250)

Change Control Date	Change
18/10/2013	Created



The above figures are average values.  
We recommend that you examine any material you select to ensure its suitability for your application.  
Tolerance(s) applied in accordance with ASG specification No WI007 (<https://bit.ly/3nKm6Hj>) unless otherwise stated.  
Our standard terms and conditions of trading (<https://bit.ly/3b3mThw>) apply at all times.

