

## BF1000 Flame Retardant Silicone Sponge Sheet

*This silicone sponge sheeting is part of our EN-45545 flame retardant range. EN-45545 is a regulation set out by the European Union to standardise the fire testing of materials used in railway applications. This sheeting is a great option for use in any enclosed environment where fire safety is a primary concern. When ignited, the compound will demonstrate low flame propagation, low smoke generation and low emission of toxic gases. This rubber sheeting is available with pressure sensitive adhesive backing. Polymax also provide a fabrication service to create gaskets or strips - please call us for more information.*

### Approvals

Various thicknesses meet different EN 45545 specifications, please view each product datasheet for more information. Compliant with GENERAL MOTORS GMW16392 Type 1, CHRYSLER MS-AY-556 Table 1 Low Density, UL94 V-0 HF-1, BMS 1-68, AIMS 04-14-002, ASTM E 162, ASTM E 662 and SMP-800C.

**Operating temperature range: -55°C to 200°C**

Physical Property	Test Method	Units	Typical Values
Elongation at Break	ASTM D412	%	90
Tensile Strength	ASTM D412	MPa	0.241
Compression Set ASTM D 1056 Test D @ 70°C		%	<1
Flame Resistance	UL 94		Listed V-0 and HF-1
Flame Spread Index	ASTM E162	Ls	<25
Smoke Density @ 4 Minutes	ASTM E 662	Ds	<50
Toxic Gas Emissions Rating	SMP-800C		Pass
Water Absorption	Internal: 24hrs @ room temp	%	2.5
UV Resistance	SAE J - 1960		No Degradation
Ozone Effect Rating	ASTM D 1171		No Cracks
Corrosion Resistance	AMS - 3568		Pass
Dielectric Constant	ASTM D 150		1.38
Dialectric Strenght	ASTM D 149	Volts/mil	90
Dry Arc Resistance	ASTMD 485	Seconds	91
Volume Resistivity	ASTM D 257	Ohm-cm	10 <sup>14</sup>
Thermal Conductivity	ASTM C 518	w/m <sup>°K</sup>	0.07

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