

Gasket material

BISCO® BF-1000 extra soft cellular silicone

Material: BISCO® BF-1000 extra soft cellular silicone is a foam-material.

Properties: BISCO® BF-1000 extra soft cellular silicone offers excellent memory and low stress relaxation, high compressibility, resistance to UV-light, ozone, extreme temperatures and flame.

Applications: BISCO® BF-1000 extra soft cellular silicone foam is used as environmental seal to protect against penetration of dust, moisture, air or light for lighting fixtures, HVAC units and electronic cabinets. It can also be applied for electronic components and transportation vehicles as vibration isolation or thermal insulation.

Delivery forms: BISCO® BF-1000 extra soft cellular silicone foam can be delivered as customized cut or die-cut part as well as self-adhesive. Other delivery forms upon customer request.

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properties	Test method	unit	Value
Physical properties			
Thickness		Mm	1,60 – 25,40
Standard width		Mm	914
Density	ASTM D 1056	Kg/m ³	208
Compression force deflection	ASTM D 1056	kPa	20,7
Compression set, max., 70°C, 22 h	ASTM D 1056 test D	%	< 1
Tensile strength	ASTM D 412	kPa	241
elongation	ASTM D412	%	90
Flammability & outgassing			
Flame resistance	UL 94		V-0
Flame spread index	ASTM E 162	L _s	< 35
Smoke density, 1,5 / 4 min.	ASTM E 662	D _s	<20/<50
Toxic gas emission rating	SMP-800C & BSS 7239		pass

properties	Test method	unit	Value
Environmental properties			
Water absorption, RT 24 h		%	3,50
UV resistance	SAE J-1960		No degradation
Ozone effect rating	ASTM D 1171		0 (no cracks)
Corrosion resistance	AMS – 3568		Pass
Other specifications available	BMS 1-68		
Electrical & thermal properties			
Dielectric constant	ASTM D 150		1,34
Dielectric strength	ASTM D149	V/mil	89
Dry arc resistance	ASTM D 495	Sec.	90
Volume resistivity	ASTM D 257	Ohm-cm	10 ¹⁴
Thermal conductivity	ASTM C 518	w/mK	0,06
Temperature resistance			
Low temperature flex at -55°C	ASTM D 1056		Pass
Recommended use temperature		°C	-55 to +200

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Please note:

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.

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