

## Gasket material

### BISCO® HT-820 firm cellular silicone

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**Material:** BISCO® HT-820 firm cellular silicone is a foam-material.

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**Properties:** BISCO® HT-820 firm cellular silicone offers excellent memory and low stress relaxation, high compressibility, resistance to UV-light, ozone, extreme temperatures and flame.

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**Applications:** BISCO® HT-820 firm 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 enclosures that require a more durable, high closure force gasket.

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**Delivery forms:** BISCO® HT-820 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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## BISCO® HT-820 firm cellular silicone

properties	Test method	unit	Value
<b>Physical properties</b>			
Colour			Grey
Thickness		Mm	0,8 – 6,4
Standard width		Mm	914
Density	ASTM D 1056	Kg/m <sup>3</sup>	368
Compression force deflection, 25%	ASTM D 1056	kPa	110,3
Compression set, 70°C/100°C	ASTM D 1056	% max.	<1/<5
Tensile strength	ASTM D 412	kPa	345
Elongation	ASTM D 412	%	55
<b>Flammability and outgassing</b>			
Flame resistance	UL 94		V-0, HF-1
Flame spread index	ASTM E 162	L <sub>s</sub>	<25
Smoke density, 4 min./1,5 min.	ASTM E 662	D <sub>s</sub>	<50/<20
Toxic gas emissions rating	SMP-800 C		Pass

properties	Test method	unit	Value
<b>Environmental properties</b>			
Water absorption, RT 24 h		%	1,40
UV resistance	SAE J – 1960		No degradation
Ozone effect rating	ASTM D 1171		No cracks
Corrosion resistance	AMS - 3568		pass
<b>Electrical &amp; thermal properties</b>			
Dielectric constant	ASTM D 150		1,50
Dielectric strength	ASTM D149	V/mil	93
Dry arc resistance	ASTM D 495	Sec.	96
Volume resistivity	ASTM D 257	Ohm-cm	10 <sup>14</sup>
Thermal conductivity	ASTM C 518	w/mK	0,11
<b>Temperature resistance</b>			
Low temperature flex at -55°C	ASTM D 1056		Pass
Recommended use temperature		°C	-55 to +200

Dr. Dietrich Müller GmbH

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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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Dr. Dietrich Müller GmbH