

## Gasket material

### BISCO® MF1 high performance silicone foam

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**Material:** BISCO® MF1 is a high performance silicone foam for rail seat cushioning.

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**Properties:** BISCO® MF1 is a cushion material that utilizes proprietary silicone technology to deliver a product that maintains firmness and thickness longer than traditional urethane foams. BISCO® MF1 also meets various global fire safety standards.

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**Applications:** BISCO® MF1 is a durable material for rail seat cushioning.

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**Delivery forms:** BISCO® MF1 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® MF1 high performance silicone foam

Properties	Test method	Unit	Value		
			MF1-35	MF1-55	MF1-75
Firmness, 50 mm, 25% IFD, ILD	ISO 2439	N	155	245	334
Firmness, 50 mm, 40%	ISO 2439	N	222	334	467
Comfort factor, 65%/25% IFD			2,5:1		
Compression deflection	ASTM D 1056	kPa	5,5	6,2	6,9
Density	ISO 845	Kg/m <sup>3</sup>	104	112	128
Resiliency		%	40	45	50
Tensile strength	ASTM D 412	kPa	86		93
elongation	ASTM D 412	%	45		35
Anti-microbial	ASTM G 21		Pass (no growth)		
Water absorption	ASTM D 570	%	<5		
Thermal conductivity	ASTM C 518	W/mK	0,045		
Maximum constant use temperature		°C	200		
Low temperature flex	ASTM D 1056	°C	-40		

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Region	Fire standard	Test method	Value
Britain (UK)	BS 6853	BS 6853	Cat 1A
Europe	EN 45545-R21	ISO 5660	HL3
		ISO 5659	
France	STM-C-708	NFF 16-101	M2 F1
		ISO 3582	Pass (no ignition)
		ISO 2440	
Germany	DIN 5510	DIN 5510-2	S4, SR2, ST2
		Annex C/ISO 5659-2	Fed <1
North America	NFPA 130/49 CFR 238	ASTM D3675	Pass
		ASTM E162	
		ASTM E662	
		ASTM C1166	
		SMP 800C	
		ASTM E1354	Reference only
Poland	PN-K-02508	PN-K-02511	Class P2
		PN-K-02508	Class A
		PN-K-02501	Class D1
		PN-93/K-0205	Class T1
International Union of Railways	IEC 564-2	UIC 564-2 App 7	Class B
		UIC 564-2 App 8	Class A
		UIC 564-2 App 15	Class A
Various other		FAR 25.853a (12 sec)	Pass
		FAR 25.853a (60 sec)	
		BSS 7239	
		FMVSS302	

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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