

Gasket material

Saint-Gobain® F-12

Material: Saint-Gobain® F-12 is a silicone foam.

Properties: Saint-Gobain® F-12 offers excellent compression set resistance, conformity as well as low density and combines it with flame retardant abilities with low toxic gas emission properties.

Applications: Saint-Gobain® F-12 can be applied for trains, medical equipment, aerospace and street lamps.

Delivery forms: Saint-Gobain® F-12 can be delivered as customized cut and die-cut part as well as self-adhesive. Other delivery forms upon customer request.

properties	Test method	unit	Value
Temperature Range		°C	-51 to +204
FDA Extractables, 21 CFR177.2600			Pass
Noise reduction coefficient	ASTM C 423	NRC	0,3
Products of combination, hydrogen cyanide	ASTM E 162	PPM	0
Thermal conductivity	ASTM C 177	BTU-in/hr.-ft ² -F	0,42
Dielectric constant	ASTM D 150	At 100 Hz	1,31
		at 1 KHz	1,30
		at 1 MHz	1,32
Arc resistance	ASTM D 495	Seconds	1,2
Insulation resistance	ASTM D 257	ohms	2,3 x 10 ¹⁴

Dr. Dietrich Müller GmbH

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properties	Test method	unit	Value
Colours			Gray, white, black, brown
Tensile strength	ASTM D 412	psi	25
Elongation at break	ASTM D 412	%	60
Density	ASTM D 3574	Lb/ft ³	12
Compression deflection	ASTM D 1056	Psi	3,0
Compression set (50%, 22 hrs.)	ASTM D 1056	%	5
Surface description	Visual		Textured one side
Flame spread index, Radiant panel	ASTM D 3675	ls	12,1
Limiting oxygen index	ASTM 2863	%	34,0
FAR 25.856 (A-1 and B)			Pass
Bombardier SMP 800-C			Pass
UL 94 V-0			Pass
Smoke density D ^s 4 min. D ^s 1,5 min	ASTM E 662		<50 <20
Flame spread index	ASTM E162	ls	(ls) / <35

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.