

Saint-Gobain COHRLastic® F-12 Silicone Foam

Category : Polymer , Thermoset , Silicone , Silicone Foam

Material Notes:

Description: Low-density, flame-retardant COHRLastic silicone foam yard goods provide outstanding performance for industries ranging from aviation and mass transit to automotive, electronics, construction and furniture. In addition to a UL94V-0 listing in thicknesses down to 1/16", it withstands a 2100°F flame for more than 10 minutes without burning through in thicknesses down to 3/8". The material, which has a nominal density of 12 pounds per cubic foot, generates very little white smoke. Non-corrosive for use with metals and in hostile environments, it has low compression set. Among its applications are fireblocks, thermal barriers, noise and vibration dampeners, insulation and high-performance gaskets or seals. For the aviation, automotive and mass transit industries, it offers a high degree of design flexibility. Lightweight and easy to process, it can be laminated to seat cover fabrics and carpeting as a backing for added flame resistance in passenger compartment furnishings. The material has similar uses in institutional and residential furnishings, marine and lighting applications. It offers properties valuable in flame retardant backings for floor, wall and furniture coverings; fire-wall and thermal barriers or insulation, padding and gasketing for commercial and private marine vehicles; or gasketing and sealing in high-intensity light fixtures and electronic components in medical, computer and business equipment. Supplied in 18" and 36" wide roll stock. Thicknesses are shown in the table below. It is available plain or, on special order, laminated to any of a wide range of substrates. Because of the unique nature of COHRLastic foam, SGPPL CHR has undertaken a rigorous testing program which is performed at outside independent laboratories. The tests document the flame resistant properties and low levels of toxicity and smoke generation as well as mechanical and electrical properties. Details are on file at SGPPL CHR. Passes FDA Extractables, 21 CFR 177.2600 Products Combustion (ASTM E662), Hydrogen Cyanide = 0 ppm In compliance with Boston Fire Dept. Chair Test, January 1986 Passes FAR 25.853(a) and (b) Passes UL94V-0 All data based on a 0.0625 inch test sample. (Other thicknesses available.) Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-COHRLastic-F-12-Silicone-Foam.php

Physical Properties	Metric	English	Comments
Density	0.194 g/cc	0.00700 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	0.172 MPa	25.0 psi	
Elongation at Break	60 %	60 %	
Compressive Strength	0.0207 MPa	3.00 psi	Compression Deflection, Compressed to 75% original thickness.; ASTM D1056
Compression Set	5.0 % @Temperature 100 °C	5.0 % @Temperature 212 °F	Constant Deflection, Compressed 50% for 22 hrs

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0605 W/m-K	0.420 BTU-in/hr-ft ² - °F	

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-51.1 Â°C	-60.0 Â°F	
Flammability, UL94	V-0	V-0	
Flame Spread Index	11.5	11.5	ASTM E162
	12.1	12.1	Radiant Panel; ASTM D3675
Smoke Density	23 min	23 min	4 minutes, flaming mode; ASTM E662
	35 min	35 min	4 minutes, smoldering mode; ASTM E662
Oxygen Index	34 %	34 %	ASTM 2863

Electrical Properties	Metric	English	Comments
Insulation Resistance	2.30e+14 ohm	2.30e+14 ohm	ASTM D257
	2.30e+14 ohm	2.30e+14 ohm	ASTM D257
Dielectric Constant	1.3	1.3	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	1.31	1.31	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
	1.32	1.32	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	123 sec	123 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Gray	

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