

# COHRLastic® Silicone Foam Rubber



COHRLastic® F-12 silicone foam combines unique flame retardancy and low toxic gas emission properties with excellent compression set resistance, conformity and low density. Combining two or all of these properties makes F-12 the ultimate fireblocking silicone foam for fire- and heat-resistant gaskets, seals and cushioning, as well as radiant heat shields and insulation blankets.

For the automotive and mass transit industries, F-12 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.

For aircraft and aerospace applications, F-12's very low density allows for weight savings, which increases aircraft fuel efficiency. As lamp gaskets for high intensity lighting, F-12's compression set, fire resistance and excellent weathering properties allow for safe, continuous outdoor operation and low maintenance.

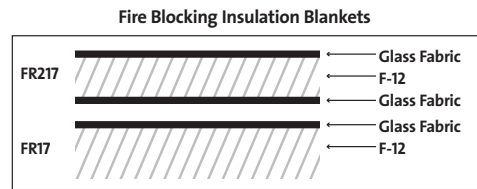
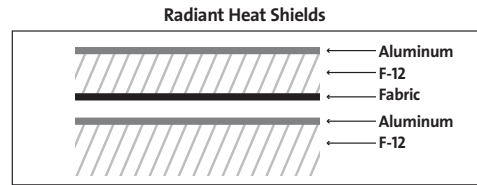
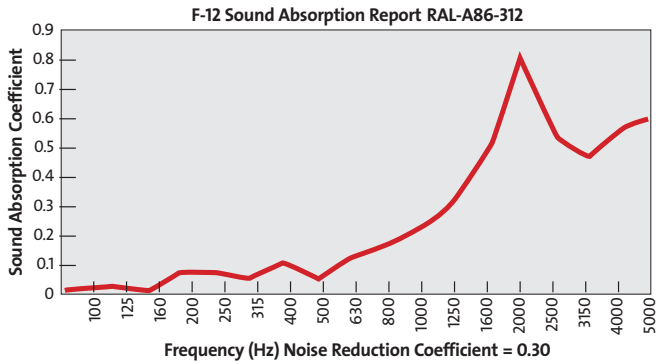
Other applications include firewall insulation and thermal barriers, noise insulation, and gasketing for commercial and private marine vehicles. F-12 also can be cast onto aluminum or fiberglass fabrics as a radiant heat shield product or insulation blanket.

F-12 is available with an acrylic film supported pressure sensitive adhesive on one side. This PSA product—Strip-N-Stick® 512AF—is available in 10-yard rolls in thicknesses from 1/16" to 1/8" and 5-yard rolls in thicknesses of 3/16", 1/4", 3/8" and 1/2". Roll widths range from 1/2" to 35".

## F-12 COHRLastic® Silicone Foam

### Features/Benefits

- UL 94 V-0 Rated
- Withstands 2100°F Flame for 10 Minutes
- Low Levels of Toxicity and Smoke Generation
- Excellent Compression Set Resistance
- Lightweight
- Can Be Cast onto Various Substrates, Including Heat Shielding Materials, Tear-Resistant Materials and Vapor Barriers
- Available as a Pressure Sensitive Adhesive Tape



## COHrlastic® Silicone Rubber — Typical Physical Properties

Physical Property	Unit of Measure	Value	Test Method
Continuous Length	Yards	up to 36" (914) (Wide)	
Tensile Strength	PSI	25	ASTM D412
Elongation at Break	%	60	ASTM D412
Density	lb.ft <sup>3</sup>	12	ASTM D3574
Temperature Range	°F (°C)	-60 to +400 (-51 to +204)	
Vertical Burn	Seconds	<3	UL94V-0 and FAR 25.853B
Compression Set (50% for 22 hrs. at 212°F)	%	5	ASTM D1056
Thermal Conductivity	BTU-in./hr.-ft <sup>2</sup> -F (K factor)	0.42	ASTM C177
Compression Deflection	PSI	3.0	ASTM D1056
Colors		Gray (Std.), White, Black, Brown	
Surface Description		Textured One Side	Visual
Thickness/Tolerance	inch (mm)	1/16 ± 1/64 (1.59 ± 0.40) 1/8 ± 1/32 (3.18 ± 0.79) 3/16 ± 1/32 (4.76 ± 0.79) 1/4 + 3/64-1/32 (6.35 +1.19, -0.79) 3/8 ± 3/64 (9.53 ± 1.19) 1/2 ± 3/64 (12.7 ± 1.19) 3/4 ± 0.075 (19.05 ± 1.91) 1 ± 0.1 (25.40 ± 2.54)	

Performance Test Results	Unit of Measure	Value	Test Method
Flame Spread Index, Radiant Panel	Is	12.1	ASTM D3675
Limiting Oxygen Index	%	34.0	ASTM 2863
Dielectric Constant	at 100 Hz	1.31	ASTM D150
	at 1 KHz	1.30	ASTM D150
	at 1 MHz	1.32	ASTM D150
Arc Resistance	Seconds	1.2	ASTM D495
Insulation Resistance	ohms	2.3 x 10 <sup>14</sup>	ASTM D257
FDA Extractables, 21 CFR177 .2600		Pass	
Noise Reduction Coefficient	NRC	0.3	ASTM C423
Products of Combination, Hydrogen Cyanide	PPM	0	ASTM E662
Boston Fire Dept. Chair Test, January 1986		In Compliance	
FAR 25.853 (A-1 and B)		Pass	
FAR 25.856 (A-1)		Pass	
Bombardier SMP 800-C		Pass	
UL94V-0		Pass	
Smoke Density -4 min. Smoldering Mode		35.0	ASTM E662
-4 min. Flaming Mode		23.0	ASTM E662
Flame Spread Index	Is	11.5	ASTM E162

**Important note to purchaser:** Values shown are typical and are not to be used for specifications. All data is subject to change without notice. Before using, the user should determine the suitability of the product for its intended use, and the user assumes all risk and liability in connection therewith. Specifications are also subject to change without notice.



Saint-Gobain Performance Plastics  
14 McCaffrey Street  
Hoosick Falls, NY 12090  
Customer Service: (800) 962-2666  
Tel: (518) 686-7301  
Fax: (800) 526-8479, (518) 686-4840

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