

COHRlastic Silicone Rubber Foam®



Properties	F12	F20	Test Method
Colour	Grey (STD), Black, Brown, White	Grey	Visual
Tensile Strength (PSI)	25	30	ASTM D412
Elongation at Break %	60	60	ASTM D412
Density (lb/ft ³)	12	20	ASTM D3574
Compression Deflection (PSI)	3	10	ASTM D1056
Compression Set (%) @ 50% for 22 hrs. @ 100°C	5	< 5	ASTM D1056
Surface Description	Textured one side	Smooth both sides	Visual
Flammability			
U.L. 94	VO	VO	U. L.
FAR 25.853 (A-1 and B)	✓	✓	FAR 25.853 (12s & 60s)
Flame Spread Index Radiant Panel (Is)	12.1	-	ASTM D3675
Flame Spread Index (Is)	< 35	-	ASTM E162
Flame Spread Index (L1)	-	< 15	ASTM E162
Limiting Oxygen Index (%)	34	-	ASTM E662
Smoke Density Ds 1.5 minutes	< 20	< 20	ASTM E662
Ds 4.0 minutes	< 50	< 50	
Boston Fire dept. Chair Test, January 1986	✓	-	-
Bombardier SMP 800-C	✓	-	-
Toxic Gas Emission Rating	-	✓	SMP-880C
Flame propagation	-	✓	ASTM C1166
Environmental			
Stain Resistance	-	✓	ASTM D925 – O6e2, Method A
Ozone Effect Rating	-	No Cracking	ASTM D1171-99 (2007) Method A
UV Resistance	-	No Degradation	Visual
Water Absorption (%)	-	< 1	ASTM D471 / D1056
Temperature Range (°C)	-51 to +204	-51 to +204	-
FDA Extractables, 21 CFR177.2600	✓	✓	-
Gasket and Seal for Electronic Enclosures	-	✓	U.L. 50E
Products of Combination, Hydrogen Cyanide (PPM)	0	-	ASTM E662
Electrical and Thermal			
Dielectric Strength (Volt/Mil)	-	80	ASTM D149
Dielectric Constant	@100Hz – 1.31	3.5	ASTM D150
	@1KHz – 1.30		
	@1MHz – 1.32		
Dissipative Factor	-	0.03	ASTM D150
Dry Arc Resistance (Seconds)	1.2	127	ASTM D495
Volume Resistance (ohms-cm)	2.3 x 10 ¹⁴	3.39 x 10 ¹⁴	ASTM D257
Thermal Conductivity	0.42 BTU-in/hr-ft ² -F	0.074 W/m-K	ASTM C177 / ASTM C518
Thermal Insulation (R-value) ft.h.F/BTU.in	-	1.94	ASTM C518
Low Temperature Brittleness (°C)	-	-100	DMA
Values are typical and should not be used to write specification			

Applications:

- Aircraft / Aerospace • Medical & Food Equipment • Street Lamps • Trains • Enclosed Electronics Devices

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