



Firm Grade Silicone Foam

Firm open cell silicone foam provides enhanced durability and sealing in a wide range of environmental conditions and applications, with a higher tear and tensile strength than lighter grade foams. Ideal for use in sealing and protecting outdoor communication, lighting, and electronic enclosures from small dust particles, wind-driven rain, and fire.

TECHNICAL DATA SHEET | (EFFECTIVE 26FEB21)

Firm Grade Silicone Foam			
PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUES
Cellular Structure	--	--	Open Cell
Firmness	--	--	Firm
Density		lb/ft³ (kg/m³)	22 (384)
Compression Deflection, 25%	ASTM D1056	psi (kPa)	15.3 (106)
Compression Set	ASTM D1056 212°F (100°C)	%	2.6 < 5
Tensile Strength	ASTM D412	psi (kPa)	35 (240)
	ASTM D751	psi (kPa)	30 (207)
Tensile Elongation	ASTM D412	%	45
Water Absorption	--	%	0.5 < 5
Flame Resistance	UL 94 (File E83967) V-0	--	Meets
Flame Spread Index (1s)	ASTM E162 Flaming Mode < 35	--	Meets
Smoke Density (D _s)	ASTM E662 Flaming Mode, 1.5 min, <100 Flaming Mode, 4.0 min, <200	--	Meets
Burn Length	FMVSS 302 <100 mm/min	--	Meets
Toxic Gas Emission Rating	SMP-800-C @ 1.5/4.0 min	--	Meets
Total Mass Loss	ASTM E595 @ (4×10 ⁻⁶ Torr)	%	2.11

Firm Grade Silicone Foam

PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUES
Collected Volatile Condensable Materials (CVCM)	ASTM E595 @ (4×10 ⁻⁶ Torr)	%	0.63
Water Vapor Regain	ASTM E595 @ (4×10 ⁻⁶ Torr)	%	0.02
Recommended Constant Use	--	°F °C	-67 - +392 -55 - +200
Thermal Conductivity	ASTM C518	W/m °K	0.009
Low Temperature Flex	ASTM D1056 @ -67°F (-55°C)	--	Meets
Low Temperature Brittleness	ASTM D745 @ -67°F (-55°C)	--	Meets
Dielectric Strength	ASTM D149	Vols/mil	66
Dielectric Constant	ASTM D150	1 kHz	1.7
Dissipation Factor	ASTM D150	1 kHz	0.006
Dry Arc Resistance	ASTM D495	Seconds	174
Volume Resistivity	ASTM D257	Ohm-cm	10 ¹⁴
Industry Standards			
UL-94 V0 & HBF HF-1 General Motors GMW 16392	≥ 0.8mm thickness Type3, Meets MATSPC		