



Soft Grade Silicone Foam

Soft open cell silicone foam has excellent memory and low stress relaxation, reducing maintenance costs from gasket failure caused by compression set and softening. Offers UL 94 V-0 flame resistance, FDA compliance for repeated use in contact with food, and has excellent low stress relaxation properties which helps protect against compression set.

TECHNICAL DATA SHEET | (EFFECTIVE 26FEB21)

Soft Grade Silicone Foam			
PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUES
Cellular Structure	--	--	Open Cell
Firmness	--	--	Soft
Density		lb/ft ³ (kg/m ³)	15 (240)
Compression Deflection, 25%	ASTM D1056	psi (kPa)	3.8 (26)
Compression Set	ASTM D1056 212°F (100°C)	%	1.6 < 5
Tensile Strength	ASTM D412	psi (kPa)	35 (240)
	ASTM D751	psi (kPa)	30 (207)
Tensile Elongation	ASTM D412	%	20
Water Absorption	--	%	0.5 < 10
Flame Resistance	UL 94 (File E83967) V-0	--	Meets
Flame Spread Index (1s)	ASTM E162 Flaming Mode < 35	--	Meets
Smoke Density (D _g)	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)	%	1.19

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Collected Volatile Condensable Materials (CVCM)	ASTM E595 @ (4×10 ⁻⁶ Torr)	%	0.34
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	0.076
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	65
Dielectric Constant	ASTM D150	1 kHz	1.5
Dissipation Factor	ASTM D150	1 kHz	0.005
Dry Arc Resistance	ASTM D495	Sconds	125
Volume Resistivity	ASTM D257	Ohm-cm	10 ¹⁴
Industry Standards			
FDA Regulation 21 CFR 177.2600	Rubber articles intended for repeated use ≥ 0.8mm thickness Type1, Meets MATSPC		
UL-94 V0 & HBF HF-1			
General Motors GMW16392			