



TECHNICAL DATASHEET: kSil[™] V-0 Super Soft Flame Resistant Silicone Sponge

PRODUCT DESCRIPTION

Lightweight, closed cell silicone sponge.

TYPICAL APPLICATIONS

- · Automotive
- · Aerospace
- · Electronics
- Heating and Ventilation (HVAC)
- · Lighting
- · Marine
- · Military
- Rail

PRODUCT FEATURES & BENEFITS

- Flame resistant to UL94V0
- Smooth Skin Excellent sealing capability to IP67
- Meets International Flame and Smoke Standards
- NFPA 130 (US) & EN45545-2 (European)
 Low Outgassing Material Low Smoke index and Low toxicity
- Super low compression set
- Low water absorption
- · Weight saving

	STANDARD
1/4", 3/8", 1/2", 5/8", 3/4", 1"	
Gray (standard), Black	
Closed Cell	
Silicone Sponge	
10.0 lbs/ft ³	BSENISO 845, ASTM D3574
-80°C (-112°F)	ASTM D746
33.5%	ENO ISO 4589-2: OI
>10 ⁵ Grays (10 ⁷ Rads) typical	
2.8 psi	ASTM D1056
6.1 psi	BSENISO 3386 part 1,2
24.7 psi	BSENISO 1798, ASTM D412
110%	BSENISO 1798, ASTM D412
<1%	BSENISO 1856
1%	ASTM D1056
0.064 w/m.K	DIN EN993-15
<1%	ASTM D1056
-76°F	
446°F	
482°F	
1.5 mm	FAR 25 APP. F SEC A 1 (i)
3 mm = 20	EN ISO 5659-2
25 mm = 34	
3 mm = 0.04	NF X 70-100-1 & 2
	ASTM C1166
	Closed Cell iilicone Sponge .0.0 lbs/ft ³ 80°C (-112°F) 3.5% 10 ⁵ Grays (10 ⁷ Rads) typical 2.8 psi 5.1 psi 24.7 psi 10% 24.7 psi 10% 24.7 psi .10% 25.7 25.

Specifications are believed to be accurate at the time of publication and are subject to change without notice. It is the responsibility of the end-user to test and determine suitability of this material for a particular application. **REV. 0**



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SURFACE FLAMMABILITY Is (FLAME SPREAD	3 mm = 15	
INDEX)	30 mm = 25	ASTM E162
SMOKE DENSITY (FLAMING MODE) Ds	(1.5 mins) 3 mm = 8 30 mm = 11 (4.0 mins) 3 mm = 14 30 mm = 30	ASTM E662
SMOKE DENSITY (NON-FLAMING MODE) Ds	(1.5 mins) 3 mm = 5 30 mm = 10 (4.0 mins) 3 mm = 13 30 mm = 29	ASTM E662
TOXIC GAS GENERATION	3 mm = Pass 30 mm = Pass	BOMBARDIER SMP 800-C
UL94 V0	1.5 mm	
EN45545-2 (HL3)	Pass	
NFPA 130	Pass	
BOMBARDIER – SMP 800c	Pass	
AIRBUS – ABD0031	Pass	
OZONE RESISTANT	Yes	
OXIDATION RESISTANT	Yes	
UV RESISTANT	Yes	
CORONA DISCARGE RESISTANT	Yes	
COSMIC RADIATION RESISTANT	Yes	
IONISING RADIATION RESISTANT	Yes	
WEATHER RESISTANT	Yes	
ASTM D1056 2D1	Pass	
FMVSS 302	Pass	
JAR 25 APPENDIX F SEC A 1 (i) & (ii)	Pass	
CS 25 APPENDIX F SEC A 1 (i) & (ii)	Pass	

FLAME RESISTANT – EN45545-2 Classifications:				
PROPERTY	DESCRIPTION	RATING		
R10	Floors and cavity wall (3 mm - 50 mm thickness range)	HL3		
R21	Seating & mattress materials (3 mm – 50 mm thickness range)	HL3		
R22	Interior seals (& non-listed interior products <0.2m ²) (2 mm - 25 mm thickness range)	HL3 (3 mm – 50 mm)		
R23	Exterior Seals (& non-listed exterior products <0.2m ²) (2 mm - 25 mm thickness range)	HL3 (3 mm – 50 mm)		

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