

TECHNICAL DATASHEET: kSil™ V-0 Medium 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

TECHNICAL DATA	VALUE	TEST METHOD / STANDARD
THICKNESS	1/8", 3/16", 1/4", 3/8", 1/2", 3/4", 1"	
COLOR	Gray (standard), Black	
CELL STRUCTURE	Closed Cell	
MATERIAL/SUBSTRATE	Silicone Sponge	
DENSITY	24.3 lb/ft³	BSENISO 845, ASTM D3574
BRITTLE POINT	-80°C (-112°F)	ASTM D746
RADIATION RESISTANCE	>10 ⁵ Grays (10 ⁷ Rads) typical	
COMPRESSION STRESS 25% STRAIN	9.0 psi	ASTM D1056
COMPRESSION STRESS 40% STRAIN	20.3 psi	BSENISO 3386 part 1,2
TENSILE STRENGTH	64.3 psi	BSENISO 1798, ASTM D412
ELONGATION TO FAILURE	100%	BSENISO 1798, ASTM D412
COMPRESSION SET, 22 HOURS @ 158°F, 50%	<1%	BSENISO 1856
COMPRESSION SET, 22 HOURS @ 212°F, 50%	3%	ASTM D1056
THERMAL CONDUCTIVITY	0.118 W/m.K	DIN EN993-15
WATER ABSORPTION	<1%	ASTM D1056
LOW TEMPERATURE RESISTANCE	-76°F	
HIGH TEMPERATURE RESISTANCE	446°F	
INTERMITTENT TEMPERATURE RESISTANCE	482°F	
FAR 25 APPENDIX F SEC A 1 (i) & (ii) (MINIMUM)	1.5 mm	FAR 25 APP. F SEC A 1 (i)
UL94 V0	1.5 mm	
EN45545-2 (HL3)	Pass	
NFPA 130	Pass	
BOMBARDIER – SMP 800c	Pass	



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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	
R22	Interior seals (& non-listed interior products <0.2m²) (2 mm - 25 mm thickness range)	HL3	
R23	Exterior Seals (& non-listed exterior products <0.2m²) (2 mm - 25 mm thickness range)	HL3	