

Solid Silicone Elastomer Flame Retardant - UL94V0 Rolls

Grades

kSil™V-0 70

Specifications

kSil™V-0 has been specifically developed for fire safety in industries such as mass transit and aerospace. The grade has been tested to and complies with:

UL94V-0 ($\geq 2\text{mm}$)

EN45545-2 – HL3: R22 & R23, HL2: R1 & R7

NFPA-130

These products also meet:

FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(i), (a)(1)(ii) vertical and (a)(1)(iv), (a)(1)(v) horizontal flammability tests.

Automotive Standard PART 571FMVSS302.

Temperature Range

-60°C (-76°F) to 230°C (446°F)
and up to 250°C (482°F) intermittent

Environment Resistance

Silicone rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionising radiation and weathering in general.

Availability

Mouldings



Rolls



Gaskets



Cables



Extrusions



Compound



Tubing



Availability

- Supplied in continuous rolls and/or sheets
- Pressure sensitive adhesive backing.
- Punched and Water Jet gaskets.
- Colour: Grey

General Characteristics

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	43.1%	ISO 4589-2
Thermal Conductivity	0.24 W.m ⁻¹ .K ⁻¹	VDE 0304
Radiation Resistance	>10 ⁵ Grays (10 ⁷ Rads) typical	
Dielectric Strength	23 kV.mm ⁻¹	VDE 0303
Dielectric Constant	3.0	IEC 60093
Dissipation Factor	3x10 ⁻³	IEC 60250
Volume Resistivity	8.1x10 ¹⁵ Ω.cm	IEC 60250

Typical Applications

Rail, Automotive, Aerospace, Marine,
Mass Transit & MOD

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Mechanical Properties

kSil™V-0 70

Property	Units	Typical Value	Test Method
Hardness	Shore A	70	DIN ISO 7619-1
Tensile Strength	MPa psi	10.2 1480	ISO 37 type 2
Elongation to Failure	%	320	ISO 37 type 2
Tear Strength	N/mm	19	ASTM D624 Die B
Compression Set 24 hours @ 150°C	%	20	DIN/ISO 815 type B
Compression Set 22 hours @ 300°F	%	20	ASTM D395 method B type 2

Extra Information

In-house capabilities for extensive industry specific testing available on request.