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[V-0]

# 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 (≥2mm)

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 <sup>-1</sup> .K <sup>-1</sup>	VDE 0304
Radiation Resistance	>10 <sup>5</sup> Grays (10 <sup>7</sup> Rads) typical	
Dielectric Strength	23 kV.mm <sup>-1</sup>	VDE 0303
Dielectric Constant	3.0	IEC 60093
Dissipation Factor	3x10 <sup>-3</sup>	IEC 60250
Volume Resistivity	8.1x10 <sup>15</sup> 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.