



kSil®



The Food and Drug Administration

## Silicone Sponge

kSil® FDA Medium

kSil® FDA Medium is a food-grade, closed-cell silicone sponge. Formulated for the food, beverage and dairy sectors, kSil® FDA Medium is fully compliant with the Food and Drug Administration to be in contact with foods.

Typical applications include gaskets and seals for food processing machinery, thermal insulation and vibration dampening.

### MECHANICAL PROPERTIES

#### Property

Density (*Measured on 12mm thick sheet)	kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	400 (25)	ISO 845 (ASTM D1056)
Hardness	Shore OO	63	ASTM D2240
Compression Force Deflection 25%	kPa (psi)	60 (8)	ASTM D1056
Tensile Strength	MPa (psi)	1.2 (174)	ASTM D412
Elongation to Failure	%	600	ASTM D412
Compression Set 50%, 24hrs recovery, 22hrs @ 100°C	%	7.0	ASTM D1056
Water Absorption	%	1	ASTM D1056

### STANDARD CAPABILITIES

Thickness	Width	Length
2.0mm-12mm (0.079" - 0.468")	1000mm (39")	5m (16.5ft)

### ACCREDITATIONS



The Food and Drug Administration



EC1935/2004



Risiken erkennen – Gesundheit schützen

### AVAILABILITY

Sheets Rolls and Extrusions

Widths up to 1m (39")

Pressure Sensitive Adhesive (PSA)

Standard colour: Blue

## APPLICATIONS

### Seal, Insulate and Protect.

Our range of FDA-approved products, including sheeting, extrusions, sections, and profiles, offers diverse applications.



#### Seals & gaskets

Low compression set for excellent sealing performance



#### Thermal insulation

Closed-cell foam provides excellent thermal insulation



#### Gap filling

Ideal material for gap filling due to flexibility



#### Vibration isolation

Acting to absorb vibration to protect applications



#### Sealing profile

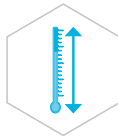
Available in custom sponge extrusions

## BENEFITS



#### In-house formulation

Formulated and mixed on-site



#### Temperature range

-60°C to 230°C  
(-76°F to 446°F)



#### Environmental resistance

Ozone, UV and weather resistant



#### Flame retardant

UL94HB

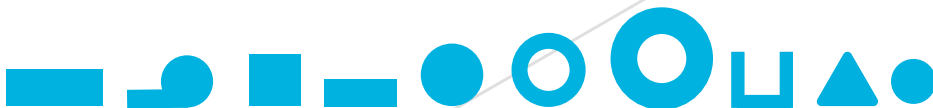


#### Long life service

vs  
Other elastomers

## EXTRUSIONS

**expansil** FDA Medium - available in a range of standard profiles from D, E, P & U sections to intricate custom profiles, **expansil**™ can be used to seal a wide range of applications from water, dust and moisture ingress. Available in white.



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