Food Grade Cellular Silicone Elastomer **Sheeting**

Grades

kSil™FDA400

Specifications

Our kSil™FDA range is in compliance with the American Food and Drugs Administration (FDA) 21 CFR 177-2600 & has been positively assessed according to German BfR Recommendation XV on silicone for Food Contact.

This sponge is predominantly closed cell with low water absorption and dust ingress protection to IP65.

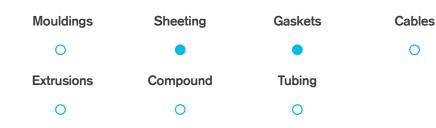
Temperature Range

-60°C to 230°C (-76°F to 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



Availability

- Available in White. Supplied in 1 metre x 1 metre (39" x 39") or roll 1 metre x 5 metre (39" x 196").
- Punched/Water Jet gaskets.

General Characteristics

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	24.0 %	BS 2782 Part 1
Thermal Conductivity	6.4x10 ⁻² W.m ⁻¹ .K ⁻¹	BS 874 Part 2
Radiation Resistance	>10 ⁵ Grays (10 ⁷ Rads) typical	

Typical Applications

Food and Beverage, Medical Pharmaceutical

ult	Standard
C (-112 °F)	ASTM D746
) %	BS 2782 Part 1
10 ⁻² W.m ⁻¹ .K ⁻¹	BS 874 Part 2
⁵ Grays (10 ⁷ Rads) typical	



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Greenbank Business Park Blakewater Road Blackburn Lancashire BB1 3HU T. +44 (0)1254 261 321 F. +44 (0)1254 583 519

www.silicone.co.uk sales@silicone.co.uk

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Mechanical Properties

Property	kSil™FDA400			
	Units	Spec Limits	Typical Value	Test Method
*Density	kg.m ⁻³ lb.ft ⁻³	400+/-50 25+/-3	420 26	BSENISO 845 ASTM D3574
**Hardness	Shore OO Shore A	- -	60 15	ASTM D2240
*** Compression Stress 40% Strain	kPa psi	80+/-20 9 to 15	90 13	BSENISO 3386 part1, 2
Compression Stress 25% Strain	kPa psi	70+/-20 7-13	70 10	ASTM D1056
Tensile Strength	MPa psi	0.5min 73min	0.9 131	BSENISO 1798 ASTM D412
Elongation to Failure	%	400min	590	BSENISO 1798 ASTM D412
Compression Set 50% compression, 24 hours recovery 22 hours @ 70°C (158°F)	%	15max	3.5	BSENISO 1856
50% compression, 24 hours recovery 22 hours @ 100°C (212°F)	%	15max	4.0	ASTM D1056

Extra Information

* Density measured on 25 mm diameter cord sample. The density of samples of different sizes will be different from that stated here.** Hardness measured on 10 mm thick samples. At less than 10mm the measured hardness will increase with density. The Shore A values are provided as a guideline for comparison to solid materials and as such are not designed for use in specifications. *** Compression Stress measured on samples as defined in BSENISO 3386. The compressive stress on samples of different dimensions, especially thickness may vary from that quoted here. For further information about physical properties for other sample sizes, please contact the technical department.

