

Cellular Silicone Elastomer Sheeting Grade

Grades

kSil™US350

kSil™US400

Temperature Range

-103°F to 500°F

Specifications

kSil™US sponge grades meet the flammability requirements of FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv), (a)(1)(v) horizontal flammability test and Automotive Standard PART 571FMVSS302.

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

The density range in white has been approved by the WRAS (Water Regulations Advisory Service) for use in contact with potable water at temperatures up to 85°C (185°F). Listing number: 1304521

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



Sheeting



Gaskets



Cables



Extrusions



Compound



Tubing



Availability

- Supplied in rolls of up to 30 ft.
- Widths up to 39".
- Pressure sensitive adhesive backing.
- Punched/Water Jet gaskets.
- Full range of standard colours.
- Capability to colour match.

General Characteristics

Test

Brittle Point

Limiting Oxygen Index

Thermal Conductivity

Radiation Resistance

Result

-67°F

24.0 %

$6.4 \times 10^{-2} \text{ W.m}^{-1}.\text{K}^{-1}$

>10⁵ Grays (10⁷ Rads) typical

Standard

ASTM D746

BS 2782 Part 1

BS 874 Part 2

Typical Applications

Automotive, Electronics, Energy, Construction, Heating and Ventilation (HVAC), Industrial, Insulations, Lighting and Marine.

Specifications

AMS3195 / AMS3196
ASTM D6576 Type II
ASTM D1056

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Mechanical Properties

Property	Units	kSil™US350 (AMS3195)	kSil™US400 (AMS3196)	Test Method
		Typical Value	Typical Value	
Compression Deflection	psi	7.0	13	ASTM D1056 (ASTM D575)
Tensile Strength	psi	108	108	ASTM D412
Elongation to Failure	%	120	120	ASTM D412
Compression Set 50% compression, 24 hours recovery. 22 hours @ 100°C (212°F)	%	25	25	ASTM D1056 (ASTM 395)
*Density	lb.ft ⁻³ lb.in ⁻³	20 0.012	25 0.017	ASTM D1056
Water Absorption	%	< 3	< 3	ASTM D1056
Temperature	(°F)	-103 to +500	-103 to +500	ASTM D746

Extra Information

* The density of samples of different sizes will be different from that stated here.

The typical values are provided as a guideline and as such are not designed for use in specifications. Certified test reports for writing specifications are available on request.