

AAG FOOD GRADE FDA

cellular silicone extrusions



1480
19/01 2021

Specifications

Our FDA range has been tested to and is in compliance with:

American Food and Drugs Administration (FDA)
21 CFR 177-2600

Directive EC 1935/2004.

German BfR Recommendation XV - silicone for Food Contact.

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

The 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

Mouldings



Sheeting



Gaskets



Cables



Extrusions



Compound



Tubing



Availability

- Cord, section, strip and profiles.
- Pressure sensitive adhesive backing.
- Joined rings and gaskets.
- Colours available: White, Blue

General Characteristics

Test

Brittle Point

Limiting Oxygen Index

Thermal Conductivity

Radiation Resistance

Result

-80°C (-112 °F)

24.0 %

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

$>10^5$ Grays (10^7 Rads) typical

Standard

ASTM D746

BS 2782 Part 1

BS 874 Part 2

Typical Applications

Food and Beverage, Medical and Pharmaceutical

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith but without warranty. This also applies where proprietary rights are involved. Our advice does not release you from the obligations to check its validity and to test our products as to their suitability for the intended use. The storage, application and use of our products are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale. The information contained within this data sheet is subject to change without notice.

AAG FOOD GRADE FDA

cellular silicone extrusions



1480
19/01 2021

Mechanical Properties

FDA 350			
Property	Units	Typical Value	Test Method
*Density	kg.m ⁻³ lb.ft ⁻³	350 21.8	BSENISO 845
**Hardness	Shore OO Shore A	~50 to 60 ~7 to 10	ASTM D2240
***Compression Stress 40% strain	kPa psi	78 11.3	BSENISO 3386 part1, 2
Tensile Strength	MPa psi	0.45 65	BSENISO 1798
Elongation to Failure	%	140	BSENISO 1798
Compression Set 50% compression, 24 hours recovery 22 hours @ 70°C (158°C)	%	<1	BSENISO 1856
22 hours @ 100°C (212°F)	%	<1	BSENISO 1856

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.