

Technical Data Sheet

Silicone Rubber Sheetting Flame Retardant FRV0 70



Material

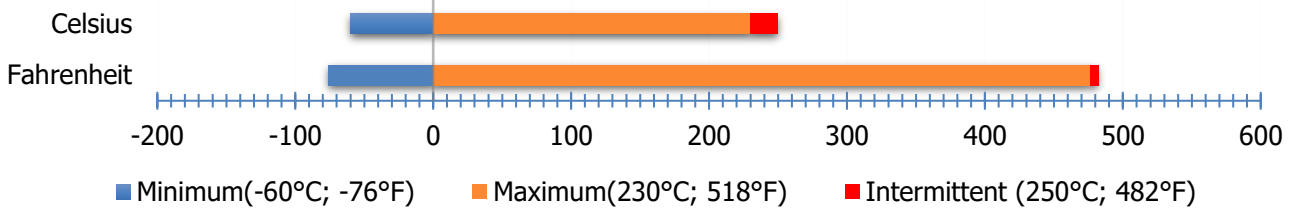
Flame Retardant Silicone Rubber FRV0



Available Grades

FRV0 70

Temperature Range



General Information

Silicone FRV0 70 sheeting has been specially developed for fire safety in industries such as mass transit and aerospace.

This product meets 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 571MVSS302.

The grade has been tested to and complies with:

UL94V0 ($\geq 2\text{mm}$)

EN45545-2 – HL3: R22 R23, HL2: R1 & R7

NFPA-130

Environmental Resistance

Silicone rubber products have an excellent resistance to:

- Ozone
- Oxidation
- Ultraviolet light
- Corona discharge
- Cosmic radiation
- Ionising radiation
- Weathering in general

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 their 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. Issue date 05.02.2024.

SILEX LTD

Silex Ltd, Unit 10, Oakhanger Farm Business Park, Oakhanger, Bordon, Hampshire, GU35 9JA. Tel 00 44 1420 470360, Fax 00 44 1420 472802
E-Mail: sales@silex.co.uk, Website: www.silex.co.uk, Registered company number: 1951973. Place of registration: England & Wales.

Technical Data Sheet

Silicone Rubber Sheetting Flame Retardant



Availability Format

- Supplied in continuous roll lengths
 - Standard width 1200mm, other widths on request
 - Pressure sensitive adhesive backing
- Punched and water jet gaskets
 - Slit strips
 - Colour grey

Typical Applications

- Automotive
 - Mass transit
 - Aerospace
- Construction
 - Industrial

Mechanical Properties

| | | FRV0 70 | |
|--------------------------------|-----------|---------------|---------------------------|
| Property | Units | Typical Value | Test Method |
| Hardness | Shore A | 70 ±5 | 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 Hrs @ 150°C | % | 20 | DIN/ISO 815 type B |
| Compression Set 22 Hrs @ 300°F | % | 20 | ASTM D395 method B type 2 |

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 their 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. Issue date 05.02.2024.

Technical Data Sheet

Silicone Rubber Sheetting Flame Retardant



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 ⁻¹ .K ⁻¹ | VDE 0304 |
| Radiation Resistance | >10 ⁵ Grays (10 ⁷ Rads) typical | |
| Dielectric Strength | 23 kV.mm ⁻¹ | VDE 0303 |
| Dielectric Constant | 3.0 | VDE 0303 |
| Dissipation Factor | 3x10 ⁻³ | VDE 0303 |
| Volume Resistivity | 8.1x10 ¹⁵ Ω.cm | VDE 0303 |

Accreditations

- FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) (a)(1)(v) horizontal flammability test
- Automotive Standard PART 571MVSS302
- REACH compliant and ROHS compliant
- UL94V0 (≥2mm)
- EN45545-2 – HL3: R22 R23, HL2: R1 & R7
- NFPA-130

Additional Information

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 their 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. Issue date 05.02.2024

SILEX LTD

Silex Ltd, Unit 10, Oakhanger Farm Business Park, Oakhanger, Bordon, Hampshire, GU35 9JA.Tel 00 44 1420 470360 , Fax 00 44 1420 472802
E-Mail: sales@silex.co.uk, Website: www.silex.co.uk, Registered company number: 1951973. Place of registration: England & Wales.