

VFR(2)SH

Silicone Rubber Sheetting MF775 Flame Retardant Rail Spec

Material

VFR(2)SH is the Viking Extrusions material code for FR8775U/MF775.

Available Grades

1000mm wide sheet
73° Shore A
Grey
Other formats available on request

General Information

Our Flame-Retardant Sheetting has been specifically developed for use in the mass transit industry and similar other safety conscious industries. The grade has been tested to and complies with BS6853 Category 1A NF F 16-101 I2, F0, EN45545-2-HL2 for R1, R7, R22 and R23 materials.

These products also meet FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(i) and (a)(1)(ii) vertical and (a)(1)(v) horizontal flammability tests. Automotive Standard PART 571FMVSS302. UL94 V0 at 3mm and UL94 V1 on 2mm (not UL Approved). Kindly note that this material has been independently tested to the UL94 criteria but is not UL listed and does not have a UL certificate (yellow card).

Material compliance

- BS 6853 Cat 1A
- NF F 16-101 I2, F0
- EN45545-2-HL2 for R1, R7, R22 and R23 materials
- UL94V0 3mm tested
- LUL 1-085
- REACH and RoHS compliant

Environmental Resistance

Silicone Rubber Products have an excellent resistance to:

- Ozone
- Oxidation
- Ultraviolet Light
- Corona Discharge
- Cosmic radiation
- Ionising radiation
- Weathering in general

Typical Applications

- Mass transit
- Automotive
- Electronics
- Construction
- Aerospace
- Insulations
- Lighting and marine

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose. 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. The information contained within this data sheet is subject to change without notice.

VFR(2)SH

Silicone Rubber Sheetting MF775 Flame Retardant Rail Spec

Availability format

- Supplied in continuous roll lengths
- Widths of 1000mm as standard
- Pressure sensitive adhesive backed if required
- Cut gaskets
- Grey colour
- Strips and fabricated articles

Mechanical Properties

| Property | Units | Typical Value | Test Method |
|---------------------------------------|--------------|----------------|---|
| Hardness | Shore A (±5) | 73 | ASTM D2240 DIN ISO 7619-1 |
| Tensile Strength | MPa (PSI) | 10.2 (1480) | ISO 37 type 1 ASTM D412 die C DIN 53504 type S1 |
| Elongation to Failure | % | 320 | ISO 37 type 1 ASTM D412 die C DIN 53504 type S1 |
| Compression set 24 hrs @ 150°C | % | 20 | BS 903 pt A6 type B DIN/ISO 815 type B |
| Compression set 22 hrs @ 300°C | % | 20 | ASTM D395 method B type 2 |

These figures are only intended as a guide and should not be used in preparing specifications.

General Characteristics

| Test | Result | Standard |
|-----------------------|---|----------------|
| Brittle Point | -80°C (-112 °F) | ASTM D746 |
| Limiting Oxygen Index | 43.1 % | BS 2782 Part 1 |
| 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 | 2.9 | IEC 60250 |
| Dissipation Factor | 3x10 ⁻³ | IEC 60250 |
| Volume Resistivity | 8.1x10 ¹⁵ Ω.cm | IEC 60093 |

These figures are only intended as a guide and should not be used in preparing specifications.

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose. 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. The information contained within this data sheet is subject to change without notice.

Viking Extrusions Ltd – Ivy Arch Road, Worthing, West Sussex, BN14 8BX, UK

Company Number: 2634482UK

VAT Number: GB587651394

Registered in England & Wales

REV 01 – Last Updated: 13/04/24

