



Low Combustion Hazard Solid Silicone Elastomer Sheeting

Also described as: Low Smoke, Low Toxicity - Flame Retardant

Specifically developed for use in the mass transit industry and other safety conscious industries. The grade has been tested to and complies with:
EN 45545 2: HL3 for R22 and R23. HL2 for R1 and R7. BS 6853 Category 1. NF F 16-101 12, F0.

Meets:

FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(i), (a)(1)(ii) vertical and (a)(1)(iv), (a)(1)(v) horizontal flammability tests.

These products are capable of meeting UL94 V 0 for products >3 mm.

Automotive Standard
PART 571 FMVSS302.

Temperature Range:

-60°C (76°F) to 230°C (446°F) and up to 250°C (482°F) intermittent.

Environmental Resistance:

Silicone rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionising radiation and weathering in general.

Availability:

- Supplied in rolls - widths up to 1m
- Pressure sensitive adhesive backing
- Custom cut gaskets
- Colour: Grey

| 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 | IEC 60250 |
| Dissipation Factor | 3x10 ⁻³ | IEC 60250 |
| Volume Resistivity | 8.1x10 ¹⁵ Ω.cm | 3 IEC 60093 |

| 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 hours @175°C | % | 20 | BS 903 pt A6 type B DIN/ISO 815 type B |
| Compression Set 22 hours @350°F | % | 20 | ASTM D395 method B type 2 |

Dimensional Tolerances: are typically class 3 as standard, unless otherwise stated. Class 2 and Class 1 tolerances on request, in most instances.

Disclaimer: All recommendations and information contained in this specification sheet are to the best of our knowledge correct. Since conditions of service are beyond our control, users must satisfy themselves that the products are suitable for intended use. No warranty is given or implied in respect of information or recommendations or that any use of products will infringe rights belonging to other parties. In any event or occurrence our liability is limited to the invoice value of our goods delivered to you. We reserve the right to change product design and properties without notice.

J-FLEX Innovative Rubber Solutions

Units 1 & 2, London Road Business Park, Retford, Nottinghamshire, DN22 6HG, United Kingdom

tel: +44 (0) 1777 712400 fax: +44 (0) 1777 712409 email: sales@j-flex.com web: www.j-flex.com



Certificate No. RS 27920

