

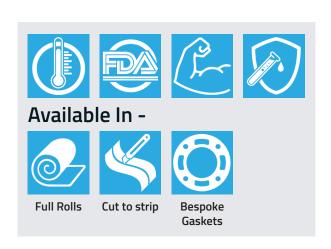


High Temperature Silicone Sheeting Datasheet

Product Code: RC0323-HT

Product Description

Our high temperature silicone sheets are the ideal product for applications that require typical properties of silicone with additional heat resistance. High temperature silicone sheets are also fully FDA and EC complaint. Aside from the excellent heat resistance, this product also offers good tensile strength and tear resistance.



Material Specification Information

Our colour range contains only ingredients approved and listed within the American Food and Drugs Administration (FDA) 21 CFR 177-2600.

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 571MVSS302.

Material Specification Information

Our Silicone rubber material offers excellent resistance against:

- Ozone
- Oxidation
- Ultraviolet Light
- Corona Discharge

- Cosmic Radiation
- Ionising Radiation
- Weathering in general

Accreditations

- FDA 21 CFR 177-2600 compliant
- BfR compliant
- EU 1935/2004
- Automotive Standard PART 571MVSS302
- FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a) (1) (iv)
 (a) (1) (v) horizontal flammability test
- REACH compliant and ROHS compliant





The information contained on this product information sheet is to be used as guidance. The advice is given in good faith and does not constitute any guarantee or recommendation for suitability. The Rubber Company cannot be held liable for any damage caused by incorrect installation. We hereby reserve the right to change the technical information herewith without notification or prior agreement.



Experts in **Rubber**

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| Properties | Test Method | Values | Values | Values | Values |
|-------------------------------------|------------------------------|---|----------|----------|----------|
| Hardness (Shore A) | ASTM D2240 | 40° ± 5° | 50° ± 5° | 60° ± 5° | 70° ± 5° |
| Tensile Strength | BS ISO 37 type 1 | 7.0 MPa | 8.0 MPa | 9.0 MPa | 10.0 MPa |
| Elongation at Break | BS ISO 37 type 1 | 600% | 400% | 350% | 350% |
| Tear Strength | ASTM D624 die B | 15 N/mm | 18 N/mm | 22 N/mm | 19 N/mm |
| Compression Set (24h, 150°C) | BS 903 pt A6 type B | 13% | 11% | 11% | 10% |
| Compression Set (22h, 300°C) | ASTM D395 method B type 2 | 13% | 10% | 10% | 10% |
| Working Temperature Range | - | -60°C to +270°C | | | |
| Temperature Range (Intermittent) | - | +300°C | | | |
| Brittle Point | ASTM D746 | -80°C | | | |
| Limiting Oxygen Index | BS 2782 Part 1 | 24.0% | | | |
| Thermal Conductivity | VDE 0304 | 0.24 W.m ⁻¹ .K ⁻¹ | | | |
| Radiation Resistance | - | >10 ⁵ Grays (10 ⁷ Rads) typical | | | |
| Dielectric Strength | VDE 0303 | 23 kV.mm ⁻¹ | | | |
| Dielectric Constant | VDE 0303 | 2.9 | | | |
| Dissipation Factor | VDE 0303 | 3x10 ⁻⁴ | | | |
| Volume Resistivity | VDE 0303 | 3x10 ¹⁵ Ω.cm | | | |

Availability Format

- Supplied in continuous roll lengths
- Widths of 1000mm (standard)
- Pressure sensitive adhesive backing
- Other widths available on request
- Punched and water jet cut gaskets
- Red oxide and white from stock
- Capability to colour match
- Fabricated articles

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