

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



ISO
9001 : 2015
REGISTERED

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.

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

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.