

Grades

- GP200, GP250, GP350, GP400, GP450, GP530

Temperature Range

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

Specifications

- 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 tests and Automotive Standard PART 571FMVSS302.
- The sponge is closed cell with low absorption and dust ingress protection to IP65.
- The density range in white has been approved by WRAS (Water Regulations Advisory Service) for use in contact with potable water at temperatures up to 85°C (185°F). This listing number is 1304521.

General Characteristics

| | | |
|------------------------------|---|----------------|
| Brittle Point | -80°C (112°F) | ASTM D746 |
| Limiting Oxygen index | 24.0% | BS 2782 Part 1 |
| Thermal Conductivity | $6.4 \times 10^{-2} \text{ W.m}^{-1}.\text{K}^{-1}$ | BS 874 Part 2 |
| Radiation Resistance | >10 ⁵ Grays (10 ⁷ Rads) typical | |

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

- Sheetting supplied in rolls or individual sheets of 1 meter x 2 meters
- Widths up to 1000mm
- Pressure sensitive adhesive backing
- Punched and Water Jet gaskets
- Full range of standard colours
- Capability to colour match

Typical Applications

- Automotive, Electronics, Energy, Construction, Heating & Ventilation (HVAC), Industrial, Insulations, Lighting and Marine

Physical

| PROPERTY | UNITS | CBF200 | CBF250 | CBF350 | CBF400 | CBF450 | CBF530 | TEST METHOD |
|---|--|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|
| Density | kg/m ³ lb.ft ⁻³ | 195 12.2 | 256 16.0 | 320 20.0 | 400 25.0 | 460 28.7 | 550 34.3 | BSENISO 845 ASTM D3574 |
| Hardness | Shore 00 Shore A | 35 ±5 <5 | 42 ±5 5 | 55 ±5 15 | 65 ±5 17 | 70 ±5 24 | 80 ±5 30 | ASTM D2240 |
| Compression Stress 40% strain | kPa | 50 | 90 | 120 | 165 | 230 | 470 | BSENISO 3386 part 1, 2 |
| Compression Stress 25% strain | psi | 4.6 | 6.4 | 8.3 | 9.0 | 17.4 | 34.8 | ASTM D1056 |
| Tensile Strength | MPa psi | 0.6 87 | 0.6 87 | 0.75 108 | 0.75 108 | 1.5 217 | 2.0 290 | BSENISO 1798 ASTM D412 |
| Elongation to failure | % | 140 | 145 | 120 | 120 | 130 | 130 | BSENISO 1798 ASTM D412 |
| Compression Set 50% compression 24hrs recovery 22hrs @ 70°C (158°F) | % | 15.0 | 12.0 | 12.0 | 10.0 | 10.0 | 9.5 | BSENISO 1856 |
| 22hrs @ 100°C (212°F) | % | 18.0 | 14.5 | 14.0 | 12.0 | 12.5 | 12.0 | ASTM D1056 |
| Water absorption | <5% | <5 | <5 | <5 | <5 | <5 | 2 | ASTM D1056 |

The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any particular application. All data relating to suitable uses and descriptions information concerning our products are compiled from research and are believed to be reliable, but are provided for guidance purposes only. The company holds no legal or contractual responsibility for information supplied.