



Silicone Rubber, Black 60 Duro



Black Silicone Rubber is a premium quality elastomer that combines a broad temperature range with excellent elasticity and sealability. It has exceptional resistance to weathering, UV, and ozone making it particularly suited for outdoor applications. Black Silicone is compatible with a wide range of chemicals, exhibits excellent electrical insulation properties, as well as being FDA compliant. Black Silicone Rubber is typically used in applications where continuous temperatures are between -60°C and 220°C with short duration spikes up to 250°C.

Technical Data:

Property:	Typical Value:	Test Method:
Temperature Range	-60°C to 230°C	---
Maximum Temperature (Intermittent)	250°C	---
Brittle Point	-80°C	ASTM D746
Hardness	60 Shore A \pm 5	DIN ISO 7619-1
Tensile Strength	10 MPa	ISO 37 type 2
Tear Strength	22 N/mm	ASTM D624 die B
Elongation to Failure	400%	ISO 37 type 2
Compression Set, 24h at 150°C	13%	DIN ISO 815 type B
Limiting Oxygen Index	24%	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	VDE 0303
Volume Resistivity	3x10 ¹⁵ Ω.cm	VDE 0303
Dissipation Factor	3x10 ⁻⁴	VDE 0303

Compliance:

- FDA 21 CFR 177-2600
- EU 1935/2004
- REACH and ROHS compliant
- WRAS compliant for potable water up to 85°C.
- FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) and (a)(1)(v) horizontal flammability test
- Automotive Standard PART 571MVSS302
- BFR XV Empfehlung and colour bleed test according to BFR Empfehlung part B

Visit: www.agaus.com.au

Phone: 1300 098 060

Important

This information should not be treated as a substitute for specific technical advice. AG does not offer such advice and cannot warrant the performance or suitability of products for particular applications.



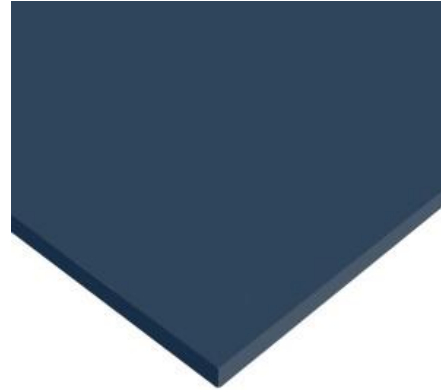
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Quality
ISO 9001

Resistance:

- Ozone
- Oxidation
- Ultraviolet light
- Corona discharge
- Cosmic radiation
- Ionising radiation
- Weathering



Applications:

- Lighting
- Power Generation
- Insulation
- Heating, Ventilation, Air Conditioning
- Construction
- Domestic and Commercial
- Food and Beverage
- Industrial

Availability:

Black Silicone Rubber is available in various thicknesses and durometers and is sold by the roll, the metre, or can be cut to suit your requirements.

Silicone Rubber is available in a variety of different colours such as red, grey, white, and translucent. Adhesive backing and high temperature sealants are also available.

For more information on these products and many more, please visit our website or call your nearest AG branch.

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