

Grades:

- CBF40, CBF50, CBF60, CBF70 & CBF80

Temperature Ranges:

- -60°C (-76°F) to 230°C (446°F)

Availability:

- The CBF range of silicone rubbers is available in the form of mouldings and profile extrusions, which can be jointed or self adhesive backed. They are particularly suited to use in oven door seals and gaskets, and are suitable for use in the food and beverage industry. There is a full range of standard colours available, including transparent, and CBF has the capability to colour match to customer requirements.

Specifications:

- Translucent, white, blue and red iron oxide variants contain only ingredients that are listed by the American Food and Drugs Administration (FDA) under the 21 CFR number: 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 tests.

General Characteristics:

Brittle Point	-80°C (112°F)	ASTM D746
Limiting Oxygen index	24.0%	BS 2872 Part 1
Thermal Conductivity	0.24W.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
Dissipation Factor @ 50c/s	3x10 ⁻⁴	VDE 0303
Volume Resistivity	3x10 ¹⁵ Ω.cm	VDE 0303

Environmental Resistance:

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

PROPERTY	CBF40		CBF50		CBF60		CBF70		CBF80		TEST METHOD
	Spec Limits	Val	Spec Limits	Val	Spec Limits	Val	Spec Limits	Val	Spec Limits	Val	
Hardness Shore A	40±5	40	50±5	50	60±5	60	70±	70	80±5	80	ASTM D2240 DIN 53505 BSISO 37 DIN 53504 die SI
Tensile Strength MPa	4.0 min	7.0	5.5 min	8.0	5.5 min	7.9	5.5 min	7.6	5.5 min	7.8	ASTM D412 die C
Elongation to failure PSI	580 min	1015	798 min	1160	798 min	1146	798 min	1102	798 min	1131	BSISO 37 DIN 53504 die S1 ASTM D412 die C
%	300 min	450	250 Min	370	250 Min	340	250 Min	320	250 Min	300	
Tear Strength N/mm	8.5 min	10.2	10.0 min	12.8	12.5 min	14.2	12.5 min	14.4	10.0 min	13.2	ASTM D624 die B
Lb/in	48.5 min	73.1	57 min	18.1	71.4 min	90.3	71.4 min	91.4	57.1 min	82.2	
Compression Set 24hrs / 150°C	35 max	25	30 max	15	30 max	13	30 max	9	30 max	19	BS903 pt A6 type B DIN 53517 type II
22hrs / 300°F	35 max	22	30 max	16	30 max	10	30 max	10	30 max	19	

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.