

**Material Specification
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Silicone Rubber (50SH)**General Information**

Excellent resistance to ozone, oxidation, UV, corona discharge, cosmic radiation, ionising radiation and weathering in general.

Excellent resistance to temperature extremes.

Sectors: Automotive, Domestic & Commercial, Catering, Construction, Electronics, Energy, Food & Beverage, HVAC, Lighting, Marine.**NB:** Care should be taken in selecting the most suitable quality for each individual application. Advice is available but the final responsibility remains with the customer.**Thicknesses Available (10mx1.2m)**

1mm to 20mm

Colours Available – WRAS Approved for use with potable water at temperatures up to 85°C, number 1310541

Translucent, Blue, White, Red, Black

FDA Approved

The colour range has been tested to, and is in accordance with, the American Food and Drugs Administration (FDA) 21 CFR 177-2600, BFR XV Empfehlung and colour bleed test according to BFR Empfehlung part B 11 & Directive EC 1935/2004.

Flammability Rating

Meet the flammability requirements of FAR 25/JAR/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) and (a)(1)(v) horizontal flammability tests and Automotive Standard Part 571FMVSS302.

General Characteristics

Test	Result	Standard
Brittle Point	-80°C (-112°F)	ASTM D746
Limiting Oxygen Index	24.0%	BS 2782 Part 1
Thermal Conductivity	0.24 W.m-1 .K-1	
Radiation Resistance	>105 Grays (107 Rads) typical	
Dialectic Strength	23 kV.mm-1	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10-4	VDE 0303
Volume Resistivity	3x1015Ω.cm	VDE 0303
Temperature	-60°C+230°C intermittent	

Mechanical Properties

Property	Unit	Value	Test Method
Hardness	Shore A ±5	50	ASTM D2240 DIN ISO 7619-1
Tensile Strength	Mpa (Psi)	9.0 (1300)	ISO 37 Type 1 ASTM D412 die C DIN 53504 type S1
Elongation to Failure	%	450	ISO 37 Type 1 ASTM D412 die C DIN 53504 type S1
Tear Strength	N/mm	18	ASTM D624 die B
Compression Set			
24hrs @ 150°C	%	15	BS903 PT A6 type B DIN/ISO 815 type B
22hrs @ 300°C	%	16	ASTM D395 method B Type 2

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 application. All data relating to suitable uses and description 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

