

Technical Data Sheet

Silicone Rubber Metal Detectable



Material

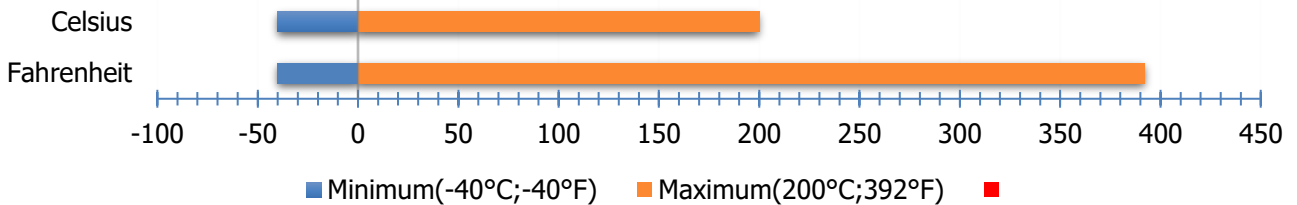
Metal Detectable Silicone



Available Grades

MD40, MD50, MD60, MD70

Temperature Range



General Information

Our metal detectable compound range has been tested to and is in compliance with the American Food and Drugs Administration (FDA) 21 CFR 177-2600 and/or comply with BFR XV "Silicones". They can therefore be considered compliant to EC 1935/2004.

This statement is supported by documented declarations from our suppliers and are subject to proper post curing.

Environmental Resistance

Silicone rubber products have an excellent resistance to:

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

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Silicone Rubber Sheeting Metal Detectable



Availability Format

- Standard Cords from Stock
- Moulded sheeting
- Can be extruded as strip or complicated profiles
- Fabricated Seals and gaskets

Typical Applications

- Commercial Catering
- Food & Beverage

Mechanical Properties

Property	Units	MD40	MD60	MD70	Test Method
Hardness	Shore A ± 5	40	60	70	DIN ISO 7619-1
Tensile Strength	Mpa (PSI)	7.9 1145	7.4 1073	7.1 1029	ISO 37 type 2
Elongation to Failure	%	358	363	365	ISO 37 type 2
Tear Strength	N/mm (lb./in.)	13.8 79	14.5 82	14.9 85	ASTM D624 die B
Compression set 22 hrs @ 175°C	%	9	20	27	DIN/ISO 815 type B
Modulus @ 100%	N/mm ²	2.2	2.5	2.7	
Magnetic Pull	mm	7.85	7.9	8.0	SEWI 700

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith but without warranty. This also applies where proprietary rights are involved. Our advice does not release you from the obligations to check its validity and to test our products as to their suitability for their intended use. The storage, application and use of our products are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale. The information contained within this data sheet is subject to change without notice. Issue date 01.01.2019.

SILEX LTD

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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	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	3x10 ⁻⁴	VDE 0303
Volume Resistivity	3x10 ¹⁵ Ω.cm	VDE 0303

Accreditations

- FDA 21 CFR 177.2600
- BFR XV „Silicones“ Compliant
- EU 1935/2004 compliant

Additional Information

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