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SILASTIC

SILICONE COATED FIBERGLASS

The silastic is made of 2 or more thicknesses of texturized fiberglass cloth laminated together with a red high temperature fireproof silicone. It is offered in a smooth, red oxide or regular finish.



APPLICATIONS

This material is often used in smelters for tapping operation joints and tolerates high temperatures. The silastic can be use in many applications: gasket for oven door base, supporting part for thermal treatment, general sealing gasket, tadpole, conveyor skirt, high temperature mat, protection curtain, expansion joint and more.

Available with kevlar for a better abrasion resistance and mechanical performance. Max. temperature 600°F.

SPECIFICATIONS

Technical Data

Thickness	1/4", 3/8", 1/2", 3/4"
Temperature	Silicone: -67°F to 550°F, Fiberglass: 1000°F
Color	Red

Physical properties

Silicone	
Hardness Shore A (DIN 53505)	31
Density (ISO 1183-1 A)	1.09g/cm³
Elongation at break, %(DIN 53504 S 1)	620
Tensile strength (N/mm²) (DIN 53504 S 1)	7.50
Tear strenght N/mm (ASTM D624B)	23
Rebound resilience, % (DIN 53512)	61

Compression set (DIN ISO 815-B)	10 % (22h/175°C)
Flame resistance (UL 94)	HB (0.5 mm)
Gas permeability (DIN 53536)	
• Room temperature	Very high resistance
• at 68°F	Resistance 30 x superior to natural rubber
• High temperature	Resistance 400 x superior to butyl rubber (At high temperature, this silicone have similar results than other organic rubber)
High energy radiation resistance	Excellent Not affected by gamma and beta radiation Very good resistance to microwave
Ozone and UV resistance	Excellent
Strong bases resistance	Good
Oxidizing acids resistance	Bad

Electrical properties

Silicone	
Dielectric strength (1-mm-sheet) (DIN IEC 243 2)	23 kV/mm
Dielectric constant at 50 Hz (DIN VDE 0303)	2.8 ϵ_r
Dissipation factor (50 Hz) (DIN VDE 0303)	$20 \times 10^{-4} \tan \delta$
Volume resistivity (DIN IEC 93)	$5 \times 10^{15} \Omega \text{ cm}$

N.B. The information presented may differ from practice. We recommend conducting tests according to the conditions of use. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products. The data is subject to certain variations without notice.