



GENERAL TECHNICAL DATA SHEET

SILICONE RUBBER SHEET GRADE – GP 60 FDA

Silicone – Elastomer: Vinylmethylpolysiloxan – VMQ - peroxide cured

Colour: translucent, red iron oxide, white, black as well others on request

Properties: Suitable for food, medical + pharmaceutical applications, physiological harmless, bacteriological indifferent, allergy uncommitted, fungicide, non-toxic, non corrosive, non sticky, nonconductive, repeated sterilisable

Resistance: Excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, (>10⁵ GRAYS/10⁷ RADS), ionising radiation, weathering and non-ageing. Good resistance to most chemical. Conditionally oil-resistant dependent on type - self-testing

Temperature Range: from approx. – 60°C (-76°F) up to approx. +230°C (+446°F), Riox / red iron oxide short term +250°C (+482°F), at temperatures as high as +300°C (+662°F) useful lives of up to 10 hours can be achieved.

MECH. PROPERTIES	SPEC. LIMITS	TYPICAL VALUE	TEST- METHODE
HARDNESS **	ca. 55 -65 Shore A	ca. 60° Shore A ±5	DIN53505 ASTM D2240
DENSITY *	ca. 1,1-1,3 g/cm ³	ca. 1,2 g/cm ³ ±0,1	DIN 53479 A
COMPRESSION SET	max. 30 %	ca. 17-20% ±5 (24h / 150°C)	DIN 53517 Typ II BS 903 pt A6 type B
TENSILE STRENGTH	min. 5,5 MPa - min. 795 psi	10,5 MPa - 1523 psi	DIN 53504- S1 ASTM D412 die C
ELONGATION TO FAILURE	min. 250 %	360 %	DIN 53504- die S1 ASTM D412 die C
TEAR STRENGTH	min. 10,0 N/mm – min. 57,0 lb/in(ppi)	14,7 N/mm – 83,9 lb/in (ppi)	BS ISO 34-1 Meth. C ASTM D624 die B
THERMAL CONDUCT.	0,24	W.m ⁻¹ .K ⁻¹	VDE 0304
VOLUME RESISTIVITY	3x10 ¹⁵	Ω.cm	VDE 0303
BRITTLE POINT	-80°C	-112°F	ASTM D746
LIMITING OXYGEN -	INDEX	24,0 %	BS2872 Part 1
FLAMMABILITY CHARACTERISTICS	Low level of toxic fume when burnt.	FAR 25.853 (a)(1)(iv) u. (a)(1)(v) Horizontal flammability tests	Not easy flammable, non-combustible droplets
CAA spec.8 issue 2(2.2)(c) and (d) horizontal flammability tests. Meets the basic requirements of UL94HB, conform DIN 4102 B2, depending on thickness, both not tested / approved			
FDA 21 CFR §177.2600, BfR XV (prev. BGVV XV / BGA) WRAS prev. WRC conform KTW BGBl.28-12		DVGW (AB W270) at conveyance of pure gases, but no burnt / smoke gases etc., not tested on product !!!	

Above technical figures based on moulded sheet samples, vulcanisation condition: 20 Min./ 175°C, post cured 4h / 200°C.

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