

Silicone Pressure Tubing

Glass Fibre Fabric

Technical Data

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Description:	Silicone pressure tubing		
Elastomer:	Silicone rubber SIL 7060, SL7061		
Colour:	Inner tubing: transparent Coating: transparent (other colours available on request)		
Fabric:	Glass fibre		
Roll length:	25 metres, loosely bound		

Elastomer properties	Hardness (DIN 53505)	70 [°Shore A]
	Density (DIN 53749)	1.18
	Tensile strength (DIN 53504 S2)	10.0 [N/mm ²]
	Elongation at break (DIN 53504 S2)	500 [%]
	Compression set (DIN 53517)	53.0
	Tear resistance (ASTM D 624 Die B)	24.0 [N/mm ²]
	Elect. volume resistivity at RT	10 ¹⁵ [Ohm x cm]
	Breakdown voltage	20 [KV/mm]
	Temperature resistance (continuous)	+200 [°C]
	Temperature resistance (short-term)	+ 250 [°C]
	Low temperature flexibility	-60 [°C]
UV resistance	very good	

Burst pressure	Product	Dimensions [ID x WT]	Burst pressure (at 20°C)
	SGS 00004	3.00 x 2.50	> 50 [bar]
	SGS 00005	4.00 x 2.50	> 50 [bar]
	SGS 00006	5.00 x 3.00	> 35 [bar]
	SGS 00007	6.00 x 3.00	> 30 [bar]
	SGS 00008	7.00 x 3.20	30 [bar]
	SGS 00009	8.00 x 3.20	25 [bar]
	SGS 00021	9.00 x 3.50	25 [bar]
	SGS 00004	10.00 x 4.00	25 [bar]
	SGS 00003	12.00 x 4.00	24 [bar]
	SGS 00010	13.00 x 4.00	23 [bar]
	SGS 00011	14.00 x 4.50	23 [bar]
	SGS 00013	16.00 x 5.00	22 [bar]
	SGS 00016	19.00 x 5.50	20 [bar]
	SGS 00017	20.00 x 5.50	15 [bar]
	SGS 00018	22.00 x 6.00	15 [bar]
	SGS 00020	25.00 x 6.00	15 [bar]



(Burst pressure is a statistical, non-binding value which was determined at 20°C using water as a pressure medium.
Higher temperatures and the use of other media can reduce pressure resistance.)

Use	Operating mode (guideline only)	Ratio of test pressure to operating pressure	Ratio of burst pressure to operating pressure
	Water tubing, maximum operating pressure < 10 bar	1.5	3.0
	Tubing for other fluids, solids dissolved in liquids or air and water tubing with an operating pressure > 10 bar	2.0	4.0
	Tubing for compressed air and other gases	2.0	4.0
	Tubing for liquid media which converts to a gaseous state when pressure reduces (i.e. during venting into the atmosphere).	2.5	5.0
	Steam tubing	5.0	10.0

Table: Ratios of test and burst pressure to operating pressure
Source: DIN EN ISO 7751: 1997

Tolerances Our tubes are manufactured in compliance with DIN 7715.

Note Please note that these properties may be considered typical, but are unsuitable for the compilation of specifications.
Information for manufacturers of materials with regard to the German Food Act (*Lebensmittelgesetz*):
Basic materials used for the manufacture of SIL 701 silicone tubing conform to Recommendation XV of the Federal Health Authority (*Bundesgesundheitsamt*) in Germany and are listed in 21.CFR § 177, 2600 of the US Food and Drug Administration (FDA) for repeated contact with food.
Both regulations contain limits for extractable contents which must be met by finished products. Series SL 701 silicone tubing materials are technical products which are not intended for the manufacture of permanent implants, nor are they intended for the production of critical medical products according to the FDA definition.

