

Contact us

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Certified management system by:

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001



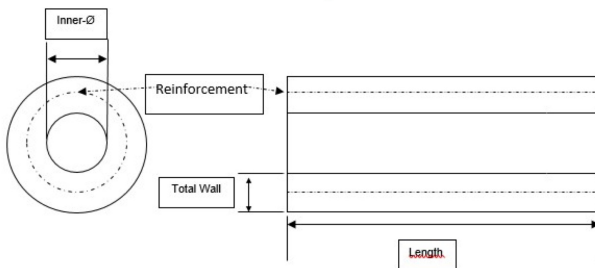
TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



Silicone Pressurehoses peroxide cured

BIW Pressure Hose Design Sketch



Reinforcement	Temperature resistance	Possible inner Ø up to
Textile glass (glass fibre)	-40°C to 180°C (240°C special formulation)	50 mm or 2"

Product description

Silicone pressure hoses are distinguished by outstanding resistance to aging, UV radiation, ozone and weather, as well as very good resistance to gamma rays. They have satisfactory resistance to aliphatic motor and transmission oils and have limited resistance to fuels, chlorinated hydrocarbons, esters, ketones and ethers, as well as strong acids and alkalis. Silicone has a high rate of permeability. It is possible to select between the standard cross-linking (peroxide cross-linking) and the especially high-grade additional cross-linking (platinum catalyzed) for all sizes and reinforcement types. The standard hardness is 70±5 Shore A. Other hardness levels are possible on request. Pressure hoses can be produced in nearly any desired color.

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Inner-Ø [mm]	Wall thickness [mm]	Outer-Ø [mm]	Bending radius [mm]	Burst pressure [bar]□	Vacuum [mbar abs.]
3.0	3.0	9.0	30	50	150
4.0	3.0	10.0	50	45	150
5.0	3.0	11.0	50	40	150
6.0	3.0	12.0	50	40	150
8.0	3.5	15.0	60	40	150
9.5	3.2	15.9	70	35	150
10.0	3.5	17.0	70	35	150
12.5	3.5	19.5	80	25	150
16.0	5.0	26.0	100	30	100
19.0	5.5	30.0	150	22	200
22.0	5.8	33.6	170	20	220
25.0	6.0	37.0	185	15	250
32.0	7.0	46.0	220	10	300
38.0	7.0	52.0	260	10	400
50.0	7.0	64.0	350	6	600

Properties of the silicone materials

Peroxide-cross-linked (chlorine free)

Peroxide cross-linked silicone is suitable for general applications and has a good price-to-performance ratio. In many colors and formulations, it is suitable for direct contact with food products (e.g. Recommendation XV of the BfR [Federal Institute for Risk Assessment] and CFR21 FDA177.2600). It is suitable only to a limited degree for medical and pharmaceutical applications.

Properties of different reinforcements

Reinforcement	Resistance to hydrolysis	Elongation @ break	Bending stress	Dynamic load capacity
Glass fibre	+	-	0	0