

Technical Data Sheet Index 25.05.2016

Silicone-hose

The silicone-hose is an insulating sleeve made of silicone rubber. Our hoses are generally cadmium free. Due to production reasons the hoses are powdered with talcum and from an inside diameter of 5 mm the sleeves can be powdered inside as well. Furthermore, the sleeves can be delivered post-cured or not post-cured. The silicone-hose has a very wide thermal operating range in almost constant physical properties. Excellent dielectric properties, physiological indifference, high weathering, ozone and UV resistance as well as the strong and brilliant colours make clear the wide application of these sleeves. The Silicon-hose is made due to DIN 60684-3 sheet 123:2001.

Technical characteristics Silicone-hose:

Property	Test* / Description	Test method
description	insulating hose	
raw material	silicone rubber	
Thermal		
temperature class	H	
operating temperature	-60 to +200°C	
ductility after heat ageing and cold temperature	Fulfilled	DIN EN 60684
Electrical		
dielectric strength	depends on wall thickness (per 0,1 mm approx. 1 kV)	DIN EN 60684
insulating resistance at RT	min. 10^{11} MΩ	DIN EN 60684
Mechanical		
tensile strength	11 MPA (min. 5,5 MPa)	DIN EN 60684
elongation at break	500% (min. 200 %)	DIN EN 60684
flammability	max. 60s	DIN EN 60684 proceeding B
self-extinguish	UL 94 HB conform	
standard colour	transparent	more colours on request
form of delivery	continuously in coils and also in sections	

*Important information: By comparison the technical data, please note that the listed values are only minimum requirements of the mentioned worldwide accepted test method. The actual values are usually much better!

Technical Data Sheet Index 25.05.2016

Nominal dimension Silicone-hose:

Dimensioning on the basis of DIN 60684-3 sheet 123:

Inner diameter [mm]		Wall thickness [mm]		
Nominal dimension	Limit deviation	Nominal	Limit deviation	
0,3	+0,10/-0,05	0,20	-0,05	+0,15
0,5	+0,15/-0,10	0,40	-0,05	+0,15
0,8	+0,15/-0,10	0,50	-0,05	+0,15
1,0	+0,20/-0,15	0,70	-0,05	+0,15
1,5	+0,20/-0,15	1,0	-0,05	+0,15
2,0	+0,20/-0,15	1,5	-0,20	+0,20
2,5	+0,20/-0,20	2,0	-0,20	+0,20
3,0	+0,20/-0,20			
4,0	+0,20/-0,20			
5,0	+0,20/-0,20			
6,0	+0,25/-0,25			
8,0	+0,25/-0,25			
10	+0,25/-0,25			
12	+0,25/-0,25			
16	+0,50/-0,50			
20	+0,50/-0,50			
25	+0,50/-0,50			
30	+0,50/-0,50			

Product range and scope of delivery

Other sizes and types on request. All hoses are produced continuously. They are available in coils and also in sections. The sections are made specifically for you by our trained personal working with special equipment. Ask us, we are happy to help.

Our products fulfil or mostly fulfil the requirements of the named engineer standards. Tests were made at certified laboratories and in the lab of our company by us. For special requirements please contact us for further information. Because of the versatility of our products is it in the responsibility of the user to test for the special case.