AlphaSil

Silicone Rubber Tubing

Silicone Rubber Tubing popular in food and beverage industries. This product features a high tear strength, with a broad temperature range from -40°C to +200°C. This enables you to use this product in a variety of applications and environments without deteriorating the product. It also contains no peroxide by-products and is non yellowing, featuring a high gloss finish.

It maintains its flexibility over time and is commonly used in metering (peristaltic) pump applications. Tubing is semi-clear, so it gives you a limited view of what's flowing through your line.

silicone rubber tubing is made from food grade materials making it suitable in food applications for dispensing or light vacuum. Silicone tubing may also be used for low pressure steam sterilization or autoclaved in a normal autoclaving cycle.

Silicone Rubber Tubing also available in various colours and hardness to suit different applications and preferences.

Properties:

- Non-yellowish
- No smell or taste
- Excellent clarity
- No reactionary elements with chlorine
- Shiny and smooth surface
- Less vulnerable to splitting or being damage
- High level of tear strength
- No build up of peroxide solids

Applications

- Medical Field
- Food and Dairy processing
- Analytical Instrumentation
- Electronic Equipment and Automation
- Water Filtration and purification
- Aerospace

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Specification

TEST	TEST METHOD	TYPICAL VALUES	UNIT
Density	DIN 53479 A	1.19	g/cm^3
Hardness	DIN 53505	60	Shore A
Tensile Strength	DIN 53504 (S1)	12	N/mm^2
Elongation to break	DIN 53504 (S1)	600	%
Tear Strength	DIN 53515 (C1)	18	N/mm
Compression Set	DIN 53517	11	%
Temperature Range	-60ºC to +200˚C (Continuous) +260ºC (Intermittent)		
Dissipation Factor	VDE 0303	$70x10^{-4}$	Tan δ
Dielectric Strength	VDE 0303	19	kV/mm
Dielectric Constant	DIN 53482 @ 25ºC and 50Hz	3	N/A
Arc Resistance	VDE 0441	90	seconds
test	**Test method**	**Typical values**	**unit**
Surface Resistance	VDE 0303	$5x10^{12}$	Ω.cm
Volume Resistivity	VDE 0303	$5x10^{15}$	Ω.cm
Abrasion Resistance	DIN 53516	76	mm^3
Thermal Conductivity	DIN 52612	0.25	$W \cdot m^{-1} \cdot K^{-1}$
Coefficient of Expansion	DIN 52612	$3x10^{-4}$	K^{-1}
Weathering	DIN 50018 - SFW 2.0 S	Without changes	15 cycles
Flame Retardancy	UL 94 V 1	pass	
Oil Resistance	Hardness Change	-2	%
ASTM Oil 1	Tensile Strength Elongation Change Volume Change	-10 +5 +3.8	% % %

Size Available *(other size custom upon request)*

1x2	4x5	6x7	8x10	12x14	20x26
1x3.1	4x6	6x8	8x11	12x15	24x32
1x3	4x6.5	6x9	8x12	12x16	25x31
1.1x3.5	4x7	6x10	8x13	12x17	25x35
1.3x2.2	4x8	6x12	8x14	12x18	30x34
1.5x3.5	4x9	6x13	8x16	12x24	32x44
2x3	4x10	6x16	9x13	13x19	34x40
2x4	4x11	7x8	9x15	15x18	36x42
2x5	4.5x6.5	7x10	10x12	15x20	38x48
2x6	4.6x7.6	7x11	10x14	16x19	40x50
2.54x4.22	5x6.2	7x12	10x15	16x21	
2.5x8	5x7	7x13	10x16	16x22	
3x4	5x8	7x9	10x18	16x25	
3x5	5x9		10x24	19x23	
3x6	5x10			19x28.6	
3x7	5.5x11.9				
3x8	5.5x9.9				
3.2x6.4					