

Vena® BUTYLFOOD



Applications

It is especially recommended for the transport of liquid or semi-liquid food products, even at high temperatures (milk, chocolate, mineral water, beer, alcoholic drinks, fruit juice, oil, cosmetic cream etc...)

It is recommended especially when a smaller bending radius is required. These hoses are able to transport liquid or semi-liquid foodstuffs at high temperatures by impulsion or suction, since their design can resist pressure or vacuum.

Limitations

Respect the bending radius and work pressure established values.

Mind the chemical compatibility of the fluid with butyl rubber

Regulations

Butylic rubber produced in compliance with:

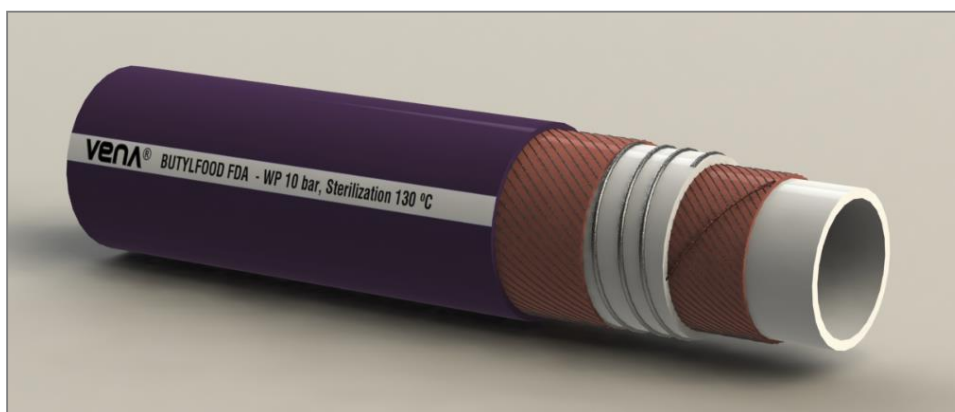
- US FDA Standard 21 CFR 177.2600
- German BfR Standard part XXI Cat 2
- ResAp 2004 (5), according to Reg 1935/2004/EEC, and Reg 10/2011/EEC
- 3A Sanitary Standard 18-03 Class III (hose)

Butylic rubber used is in accordance with EU Directive 2002/95/ECC for Restriction of the use of hazardous substances (RoSH)

Properties

- Odorless, tasteless and completely non-toxic.
- White color and smooth inner appearance, purple colored and smooth outer appearance.
- Can be equipped with 316L stainless steel fittings on each end with a roughness value of less than 0.8 μm (or 0.5 μm on request).
- Operational temperature range from -20°C (4 F) to +100°C (212 F) it may reach up to +120°C (248 F). It can be sterilised at 130°C (266 F) for a maximum time of 30 minutes.
- Available at a maximum length of 40m (131.23 ft)
- The vacuum resistance for this hose is 0.9 Bar (13.0.5 psi) up to diameter 63 (2 ½ inch) and 0.8 Bar (11.6 psi) from 63 (2 ½ inch) to 102mm (4 inch).

Technical Specifications



Inner Diameter		Outer Diameter		Working Pressure ISO 1402/2009		Bursting Pressure ISO 1402/2009		Bending Radius ISO 1746/2000	
± 0.5 mm	± 0.02 inch	$+1/-0.5$ mm	$+0.04/-0.02$ inch	Bar at 20°C	Psi at 68°F	Bar at 20°C	Psi at 68°F	mm	inch
16	5/8	26	1.02	10.0	145.04	30.0	435.11	96	3.78
19	3/4	29	1.14	10.0	145.04	30.0	435.11	115	4.53
25	1	37	1.46	10.0	145.04	30.0	435.11	150	5.91
32	1 1/4	45	1.77	10.0	145.04	30.0	435.11	200	7.87
38	1 1/2	51	2.01	10.0	145.04	30.0	435.11	230	9.06
51	2	65	2.56	10.0	145.04	30.0	435.11	300	11.81
63	2 1/2	78	3.07	10.0	145.04	30.0	435.11	380	14.96
76	3	92	3.62	10.0	145.04	30.0	435.11	450	17.72
102	4	120	4.72	10.0	145.04	30.0	435.11	600	23/62

Construction

This product is manufactured with inner Butyl food grade and EPDM cover, it is equipped with two textile reinforcements inside the wall of the tube, a double steel spring wire and copper braiding which prevent users from discharges of static electricity.

Use Precautions

- The extreme working conditions or the use of materials with low compatibility with the silicone can attack the inner surface of the hose. It is advisable to inspect the inner appearance for cracks or swelling, and replacement of the hose, if necessary.
- Hose cover: Should be inspected over the entire length for signs of hardening, abrasion, cuts, kinking or crushing.