Pumpsil

Pumpsil platinum-cured silicone tubing

Features and benefits

- Fully documented biocompatibility and comprehensive validation pack
- Absolute traceability with laser etched part number, lot number and use-by date
- Excellent flow stability for accurate process control
- Comprehensive stock of a wide range of sizes
- Operating temperature -20 °C to 80 °C (-4 °F to 176 °F)



Technical specifications

	Pumpsil
Bore size	0.5 - 25.4 mm
Bore size	0.02 - 1 in
Wall thickness	1.6 - 4.8 mm
Wall thickness	0.063 - 0.188 in
Length	3 - 152 m
Colour	Colourless
Transparency	Translucent
Spallation	Low
Certification	FDA 21CFR177.2600, Ph. Eur. 3.1.9, Regulation (EC) No 1935/2004, USP Class VI
Operating temperature range	-20 to 80 °C
Operating temperature range	-4 to 176 °F
Hardness, shore A (5sec)	60
Specific gravity	1.16
UV resistance	Excellent
Tear B	0.02 - 0.06 kN/m
Tear B	200-500 ppi
Ultimate tensile strength	1306 psi
Ultimate tensile strength	9 MPa
Elongation at break	550-1500 %
Tensile stress at 100% elongation	8.13 Mpa
Tensile stress at 100% elongation	1180 Psi
Gas permeability rating	Low
Compression set	5-42.5 %
Water absorption	Low
Shelf life	5 years
Gamma stability	25-50 kGy
Autoclave stability	121 °C 30 minutes
Sterilisation methods	Autoclave, EtO, Gamma
Weight	0.1 - 10.7 kg
Weight	0.22 - 23.59 lbs
Compatible pumpheads	313D, 313D2, 314D, 314D2, 520R, 520R2, 620R,

ASTM methods Hardness: ASTM D 2240; Specific gravity: ASTM D 792; Tear B ISO 34-2; Ultimate tensile strength, Elongation at break, Tensile stress at 100 % elongation ISO 37; compression set ISO 815-1; ASTM D 412

Materials of construction

	Pumpsil
Tubing	Platinum-cured silicone

Product codes

Tube ordering codes						
Bore		**Wall**		**Coil size**		
mm	**inch**	**mm**	**inch**	**15m/50ft**	**5m/16ft**	**152m/500ft**
0.5	1/50	1.6	1/16	913.A005.016	913.AJ05.016	913.B005.R16
0.8	1/32	1.6	1/16	913.A008.016	913.AJ08.016	913.B008.R16
1.2	3/64	1.6	1/16	913.A012.016	913.AJ12.016	913.B012.R16
1.6	1/16	1.6	1/16	913.A016.016	913.AJ16.016	913.B016.R16
2.4	3/32	1.6	1/16	913.A024.016	913.AJ24.016	913.B024.R16
3.2	1/8	1.6	1/16	913.A032.016	913.AJ32.016	913.B032.R16
4.8	3/16	1.6	1/16	913.A048.016	913.AJ48.016	913.B048.R16
6.4	1/4	1.6	1/16	913.A064.016	913.AJ64.016	913.B064.R16
						122m/400ft
8.0	5/16	1.6	1/16	913.A080.016	913.AJ80.016	913.B080.R16
						152m/500ft
0.5	1/50	2.4	3/32	913.A005.024	913.AJ05.024	913.B005.R24
0.8	1/32	2.4	3/32	913.A008.024	913.AJ08.024	913.B008.R24
1.6	1/16	2.4	3/32	913.A016.024	913.AJ16.024	913.B016.R24
3.2	1/8	2.4	3/32	913.A032.024	913.AJ32.024	913.B032.R24
						122m/400ft
4.8	3/16	2.4	3/32	913.A048.024	913.AJ48.024	913.B048.R24
						91m/300ft
6.4	1/4	2.4	3/32	913.A064.024	913.AJ64.024	913.B064.R24
						61m/200ft
8.0	5/16	2.4	3/32	913.A080.024	913.AJ80.024	913.B080.R24
						46m/150ft
9.6	3/8	2.4	3/32	913.A096.024	913.AJ96.024	913.B096.R24
					3m/10ft	**91m/300ft**
4.8	3/16	3.2	1/8	913.A048.032	913.A048.I32	913.B048.R32
						61m/200ft
6.4	1/4	3.2	1/8	913.A064.032	913.A064.I32	913.B064.R32
						46m/150ft
9.6	3/8	3.2	1/8	913.A096.032	913.A096.I32	913.B096.R32
						30m/100ft
12.7	1/2	3.2	1/8	913.A127.032	913.A127.I32	913.B127.R32
15.9	5/8	3.2	1/8	913.A159.032	913.A159.I32	-
8.0	5/16	4.0	-	913.A080.040	913.A080.I40	-
12.0	-	4.0	-	913.A120.040	913.A120.I40	-
16.0	-	4.0	-	913.A160.040	913.A160.I40	-
9.6	3/8	4.8	3/16	913.A096.048	913.A096.I48	-
12.7	1/2	4.8	3/16	913.A127.048	913.A127.I48	-
15.9	5/8	4.8	3/16	913.A159.048	913.A159.I48	-
19.0	3/4	4.8	3/16	913.A190.048	913.A190.I48	-
25.4	1	4.8	3/16	913.A254.048	913.A254.I48	-

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