



FLEXAFLEX HOSES INTERNATIONAL
Ahmedabad



Pooja Shah - Sales
+91-99784 42215 | +91-70690 96458



Chirag Shah - Technical
+91-79903 36570



S.D. Shah - Director
+91-90990 16044

SAMRTFLEX POLYURETHANE HOSE



Structure:

Clear Polyether – Polyurethane flame resistant and antistatic reinforced with copper coated spring steel wire.

Flame Retardant and Permanently Antistatic

Wall Thickness:

0.4 to 2 mm

Temperature range:

-40°C to +100°C

Characteristics:

Flame retardant according to DIN 4102 B 1, excellent abrasion resistance, good oil and petrol resistance, resistant to hydrolysis and microbes, permanently antistatic ($R \leq 10^8$ Ohm), conform to TRGS 727 and ATEX 2014/34/EU, very good flexibility even at low temperatures, very smooth bore, electrically conductive according to BGI 739 by grounding the wire

Applications:

Wall Thick : 0.4 / 0.6 mm

Ideal for suction of dust and fine particles in wood working or similar industries where frequent fire occur.

Wall Thick : 0.7 / 1 / 1.4 / 2 mm

Suction of abrasive particles like wooden splinters and chips in woodworking or similar industries where frequent fire occur.



flexaflexhoses@gmail.com



www.flexaflexhoses.com
www.hosesmarket.com



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106, First Floor, Kailashpathi Chamber,
Nr. Sunrise Restaurant, Reid Road,
O/S Panchkuva Gate, Ahmedabad - 380 002



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0.4 mm Wall Thick

ID mm	Weight kg/m	Wall Thick. kg/m	Bending Radius mm	Over pressure bar	Vacuum bar
25	0.13	0.40	16.00	0.60	0.30
30	0.15	0.40	20.00	0.55	0.25
40	0.23	0.40	28.00	0.50	0.25
50	0.29	0.40	35.00	0.40	0.20
60	0.34	0.40	42.00	0.40	0.16
80	0.46	0.40	56.00	0.27	0.10
100	0.52	0.40	70.00	0.20	0.09
120	0.61	0.40	88.00	0.20	0.08
140	0.66	0.40	92.00	0.15	0.08
150	0.78	0.40	105.00	0.10	0.07
160	0.85	0.40	114.00	0.09	0.06
180	0.95	0.40	128.00	0.09	0.06
200	1.02	0.40	140.00	0.08	0.05
215	1.14	0.40	185.00	0.07	0.05
225	1.20	0.40	200.00	0.06	0.04
250	1.28	0.40	205.00	0.05	0.04
300	1.54	0.40	210.00	0.03	0.03
400	2.05	0.40	280.00	0.01	0.01
500	2.56	0.40	350.00	0.01	0.01
600	4.60	0.40	400.00	0.01	0.01
710	5.44	0.40	497.00	0.01	0.01
800	6.13	0.40	560.00	0.01	0.01

0.6 mm Wall Thick

ID mm	Weight kg/m	Wall Thick. kg/m	Bending Radius mm	Over pressure bar	Vacuum bar
20	0.14	0.50	20	1.90	0.55
25	0.17	0.50	25	1.70	0.45
30	0.19	0.50	30	1.65	0.45
32	0.2	0.50	32	1.60	0.42
35	0.21	0.50	35	1.50	0.35
38	0.23	0.50	38	1.50	0.30
40	0.25	0.50	40	1.40	0.30
50	0.31	0.50	50	1.30	0.28
60	0.52	0.60	60	1.10	0.25
75	0.65	0.60	75	0.80	0.20
80	0.68	0.60	80	0.80	0.20
90	0.73	0.60	90	0.70	0.16
100	0.83	0.60	100	0.60	0.15
110	0.92	0.60	110	0.50	0.14
120	0.95	0.60	120	0.45	0.14
125	1.03	0.60	125	0.40	0.12
140	1.12	0.60	140	0.30	0.12
150	1.24	0.60	150	0.25	0.10
160	1.25	0.60	160	0.22	0.10
180	1.51	0.60	180	0.22	0.10
200	1.68	0.60	200	0.20	0.09
215	1.81	0.60	215	0.20	0.09
225	1.9	0.60	225	0.15	0.09
250	1.97	0.60	250	0.15	0.08
300	2.36	0.60	300	0.12	0.06
350	2.75	0.60	350	0.10	0.04
400	3.14	0.60	400	0.08	0.02
450	3.55	0.60	450	0.04	0.01
500	3.94	0.60	500	0.02	0.01

0.7 mm Wall Thick

ID mm	Weight kg/m	Wall Thick. kg/m	Bending Radius mm	Over pressure bar	Vacuum bar
40.00	0.40	0.70	40.00	1.15	0.40
50.00	0.45	0.70	50.00	1.00	0.25
60.00	0.48	0.70	60.00	1.00	0.25
80.00	0.65	0.70	80.00	0.80	0.20
100.00	0.84	0.70	100.00	0.60	0.18
120.00	0.95	0.70	120.00	0.50	0.15
140.00	1.06	0.70	140.00	0.40	0.10
150.00	1.12	0.70	150.00	0.38	0.10
160.00	1.20	0.70	160.00	0.35	0.08
180.00	1.45	0.70	180.00	0.30	0.07
200.00	1.50	0.70	200.00	0.25	0.05
215.00	1.76	0.70	215.00	0.25	0.05
225.00	1.85	0.70	225.00	0.20	0.04
250.00	1.93	0.70	250.00	0.20	0.04
300.00	2.31	0.70	300.00	0.15	0.02
350.00	2.95	0.70	350.00	0.10	0.01
400.00	3.62	0.70	400.00	0.10	0.01
450.00	4.80	0.70	450.00	0.05	0.01
500.00	5.81	0.70	500.00	0.05	0.01

1 mm Wall Thick

ID mm	Weight kg/m	Wall Thick. kg/m	Bending Radius mm	Over pressure bar	Vacuum bar
13.00	0.07	1.00	17.00	1.60	0.80
16.00	0.10	1.00	21.00	1.60	0.80
20.00	0.13	1.00	26.00	1.50	0.70
25.00	0.19	1.00	33.00	1.45	0.55
30.00	0.25	1.00	39.00	1.45	0.55
35.00	0.30	1.00	46.00	1.25	0.45
38.00	0.33	1.00	49.00	1.25	0.45
40.00	0.35	1.00	52.00	1.25	0.45
50.00	0.41	1.00	65.00	1.20	0.40
60.00	0.47	1.00	78.00	1.15	0.35
75.00	0.61	1.00	98.00	1.05	0.30
80.00	0.65	1.00	104.00	1.05	0.25
90.00	0.80	1.00	117.00	0.85	0.25
100.00	0.95	1.00	130.00	0.70	0.23
110.00	1.02	1.00	143.00	0.65	0.20
120.00	1.08	1.00	156.00	0.65	0.20
125.00	1.13	1.00	163.00	0.55	0.20
140.00	1.18	1.00	182.00	0.55	0.15
150.00	1.25	1.00	195.00	0.45	0.15
160.00	1.34	1.00	208.00	0.40	0.15
180.00	1.68	1.00	234.00	0.35	0.12
200.00	1.87	1.00	260.00	0.30	0.10
225.00	2.11	1.00	293.00	0.25	0.09
250.00	2.35	1.00	325.00	0.25	0.09
300.00	3.08	1.00	390.00	0.20	0.07
350.00	3.75	1.00	455.00	0.18	0.06
400.00	4.24	1.00	520.00	0.15	0.06
450.00	5.42	1.00	585.00	0.15	0.06
500.00	6.02	1.00	650.00	0.15	0.06

1.4 mm Wall Thick

ID mm	Weight kg/m	Wall Thick. kg/m	Bending Radius mm	Over pressure bar	Vacuum bar
25.00	0.30	1.40	38.00	3.00	0.90
30.00	0.37	1.40	45.00	3.00	0.90
32.00	0.38	1.40	48.00	3.00	0.90
35.00	0.45	1.40	53.00	2.60	0.80
38.00	0.52	1.40	57.00	2.40	0.75
40.00	0.56	1.40	60.00	2.30	0.70
50.00	0.67	1.40	75.00	1.90	0.60
60.00	0.79	1.40	90.00	1.80	0.55
75.00	0.98	1.40	113.00	1.20	0.50
80.00	1.09	1.40	120.00	1.20	0.45
90.00	1.23	1.40	135.00	1.10	0.45
100.00	1.36	1.40	150.00	1.10	0.40
110.00	1.38	1.40	165.00	1.00	0.35
120.00	1.42	1.40	180.00	0.90	0.30
125.00	1.54	1.40	188.00	0.80	0.25
140.00	1.75	1.40	210.00	0.70	0.20
150.00	1.82	1.40	225.00	0.70	0.20
160.00	2.15	1.40	240.00	0.60	0.20
180.00	2.55	1.40	270.00	0.50	0.15
200.00	2.92	1.40	300.00	0.50	0.15
225.00	3.25	1.40	338.00	0.40	0.10
250.00	3.57	1.40	375.00	0.30	0.10
300.00	4.31	1.40	450.00	0.30	0.10
350.00	5.05	1.40	525.00	0.25	0.09
400.00	5.75	1.40	600.00	0.20	0.09
450.00	6.47	1.40	675.00	0.10	0.08

2 mm Wall Thick

ID mm	Weight kg/m	Wall Thick. kg/m	Bending Radius mm	Over pressure bar	Vacuum bar
40.00	1.20	2.00	100.00	2.50	1.00
50.00	1.45	2.00	130.00	2.45	1.00
60.00	1.50	2.00	150.00	2.40	1.00
76.00	1.90	2.00	230.00	2.25	1.00
80.00	2.00	2.00	250.00	2.20	0.95
90.00	2.20	2.00	300.00	2.10	0.95
100.00	2.40	2.00	400.00	2.00	0.90
110.00	2.60	2.00	500.00	1.85	0.90
120.00	2.80	2.00	600.00	1.70	0.90
130.00	3.35	2.00	650.00	1.54	0.90
140.00	3.20	2.00	700.00	1.60	0.85
150.00	3.40	2.00	800.00	1.50	0.85
160.00	3.60	2.00	850.00	1.45	0.85
170.00	3.80	2.00	900.00	1.35	0.83
180.00	4.00	2.00	1000.00	1.30	0.80
190.00	4.50	2.00	1100.00	1.20	0.75
200.00	4.70	2.00	1200.00	1.15	0.80
210.00	4.80	2.00	1300.00	1.10	0.80
220.00	4.90	2.00	1400.00	1.00	0.75
230.00	5.20	2.00	1500.00	0.90	0.72
240.00	5.40	2.00	1550.00	0.80	0.80
250.00	5.60	2.00	1600.00	0.70	0.55

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