

Airduc® PUR 351 MHF



APPLICATIONS

Universal and abrasion-proof suction and transport hose, especially suitable:

- For abrasive solids such as dust, powder, fibres, chips and granulates
- For gaseous and liquid media
- For de-dusting and suction plants, industrial vacuum cleaners, suction of paper and textile fibres
- As resistant protection hose

PROPERTIES

- Medium-heavy model
- Highly abrasion-proof (abrasion resistance about 2.5 to 5 times better than most rubber materials and about 3 to 4 times better than most soft PVC's)
- Smooth interior
- Optimized flow properties
- Flexible
- High tensile strength and tear resistant
- Food quality wall complies with: FDA 21 CFR 177.2600 and 178.2010, EC guideline 2002/72/EC incl. the latest amendment 2007/19/EC, German guideline XXXIX BfR polyurethane (see chapt. 14.5)
- Approval according to EC guideline 2002/72/EC incl. the latest amendment 2007/19/EC for the complete hose by independent institute (see chapt. 14.5)
- Microbe and hydrolysis resistant
- Good resistance to mineral oils and gasoline
- Good resistance to chemicals (refer to section 14.1)
- Good resistance to UV and ozone (see chapt. 14.8)
- Very good low temperature flexibility (better than comparable ester-polyurethanes)
- Small bending radius
- Kink-proof
- Free of softener and halogen
- Gas and liquid tight
- Flame-retardant according to: UL94-HB
- Conform to RoHS guideline
- According to TRBS 2153 (formerly BGR 132): capable of electro-static discharge by grounding the spiral, recommended for many applications with the exception of inflammable bulk materials

MATERIAL

- Wall: special premium ether-polyurethane
- Spiral: spring steel wire

TEMPERATURE RANGE

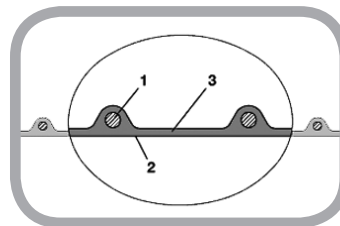
- -40°C approx to +90°C approx
- Short time to +125°C approx

COLOUR

- Transparent

CONSTRUCTION

- 1 Spring steel wire firmly embedded in wall
- 2 Profile with optimized flow properties
- 3 Wall thickness 0.9 mm approx.
according to TRBS 2153 antistatic wall: electrical and surface resistance <math>< 10^9 \Omega</math> due to permanently antistatic material without migration



Airduc® PUR 351 MHF

I.D	O.D	Recommended Operating Limits		Bending Radius (middle of hose)	Weight	Further Production Lengths	Stock Lengths	Part Number
		Overpressure bar	Vacuum bar					
mm	mm	bar	bar	mm	kg/m	mm	mm	
25	32	2.69	0.495	35	0.2	10	15	351-0025-0000
30	38	2.26	0.475	42	0.26	15	10	351-0030-0000
32	40	2.12	0.46	44	0.28	15	10	351-0032-0000
35	43	1.94	0.44	47	0.3	15	10	351-0035-0000
38	46	1.795	0.43	51	0.32		10 15 20	351-0038-0000
40	48	1.71	0.42	53	0.34		10 15 20	351-0040-0000
45	53	1.525	0.385	58	0.38	15	10	351-0045-0000
50	58	1.37	0.365	64	0.41		10 15 20	351-0050-0000
55	63	1.255	0.33	69	0.45		10 15	351-0055-0000
60	68	1.15	0.285	75	0.49		10 15	351-0060-0000
65	73	1.06	0.255	80	0.53		10 15	351-0065-0000
70	79	0.99	0.21	87	0.59		10 15	351-0070-0000
75	84	0.92	0.195	92	0.64	15	10	351-0075-0000
80	89	0.86	0.175	98	0.68		10 15	351-0080-0000
90	99	0.77	0.155	109	0.75	15	10	351-0090-0000
100	109	0.69	0.12	120	0.97		10 15	351-0100-0000
102	111	0.68	0.12	122	0.99	10 15		351-0102-0000
110	119	0.63	0.11	131	1.06		10 15	351-0110-0000
115	124	0.605	0.105	136	1.11	15	10	351-0115-0000
120	129	0.58	0.105	142	1.16		10 15	351-0120-0000
125	134	0.56	0.085	147	1.2		10 15	351-0125-0000
127	136	0.545	0.085	148	1.22	10 15		351-0127-0000
130	139	0.535	0.085	153	1.25	15	10	351-0130-0000
140	149	0.495	0.085	164	1.34	15	10	351-0140-0000
150	159	0.46	0.075	175	1.52		10 15	351-0150-0000
160	169	0.435	0.065	186	1.61	15	10	351-0160-0000
170	179	0.41	0.065	195	1.71	15	10	351-0170-0000
175	184	0.4	0.055	202	1.76	15	10	351-0175-0000
180	189	0.385	0.055	208	1.81	15	10	351-0180-0000
200	209	0.35	0.055	230	2		10 15	351-0200-0000
203	212	0.345	0.055	233	2.03	10 15		351-0203-0000
225	234	0.31	0.04	257	2.16	15	10	351-0225-0000
250	259	0.28	0.02	285	2.39	15	10	351-0250-0000
275	284	0.255	0.02	312	2.63		10	351-0275-0000
280	289	0.25	0.02	318	2.67	10		351-0280-0000
300	309	0.23	0.02	340	2.86		10	351-0300-0000
315	324	0.22	0.02	356	3	10		351-0315-0000
320	329	0.215	0.02	362	3.05	10		351-0320-0000
325	334	0.215	0.015	367	3.1		10	351-0325-0000
350	359	0.2	0.015	395	3.33		10	351-0350-0000
375	384	0.185	0.01	424	3.9	10		351-0375-0000
400	409	0.17	0.01	450	4.27		10	351-0400-0000
450	459	0.155	0.01	508	4.8	10		351-0450-0000
500	509	0.14	0.01	565	5.33	10		351-0500-0000

Further diameters and lengths available on request. All stated data are approx. figures based on a temperature of 20 °C.
Engineering modifications subject to change. Please refer to technical index