

Antistatic polyurethane hose, super-light, microbe resistant + flame-retardant

Applications

- flexible hose/ ducting for gases and for abrasive dust, powder, fibres
- extraction unit, dedusting system, filter system, oil mist extraction
- extraction arm
- chemical industry: chemical vapours, vapour return hose at loading arm, paint steam, spray mist extraction
- explosion hazard area
- animal stall, animal shed: barn ventilation
- bus, utility vehicle, caravan/ trailer, mobile home/ camper/ RV, boat, ship/ vessel/ marine, yacht: ventilation, heating
- clean room ventilation, semiconductor production machine
- bellows, compensators

Properties

- super-light weight
- highly flexible + compressible 3:1
- abrasion-resistant

- microbe resistant
- good resistance to oil, gasoline and chemicals
- very good low temperature flexibility
- flame-retardant according to: UL94-HB
- flame-retardant according to: DIN 4102-B1
- permanently antistatic wall: in accordance with ISO 8031 electrical and surface resistance <math><10^9 \Omega</math>
- in accordance with ATEX 2014/34/EU (1999/92/EC) and German TRGS 727: aspiration of combustible dust (zone 22 inside), for conveying of non-flammable liquids, for use in zone 1 and 2 (gases)
- conforms to the safety regulations of the German Wood Trade Association
- according to DIN 26057 Type 1
- conforms to RoHS guideline
- REACH according to -> Technology / Technical Information / REACH

Temperature Range

- 40°C to 90°C

- short time to 125°C

Design, Material

patented PROTAPE® tape hose

- spring steel wire integrated in wall
- wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
- wall thickness 0,4 mm approx.

Delivery variants

- further diameters and lengths available on request
- transparent (standard)
- special colours: partially coloured, completely coloured
- customer-specific branding
- ID 1"/25mm – 12"/305mm compressed packed in poly bag (low transportation cost / risk, minimum storage size), ID315 – 500mm not compressed

I.D.	O.D.	Pressure DIN 26057 (50% Elongation)	Vacuum DIN 26057 (axially fixed)	Bending Radius	Weight	Minimum Quantity	Dimensions in Stock	Order No.
in / mm	mm	bar	bar	mm	kg/m	m	m	
standard								
1,5 / 38	46	0,630 (1,86)	0,245 (0,73)	27	0,220	-	5 10 15	301-0038-0000
- / 40	48	0,600 (1,77)	0,235 (0,66)	28	0,230	-	5 10 15	301-0040-0000
1,75 / 44-45	53	0,535 (1,58)	0,210 (0,52)	31	0,255	-	5 10 15	301-0045-0000
2 / 50-51	58	0,480 (1,42)	0,170 (0,85)	33	0,280	-	5 10 15	301-0050-0000
2,36 / 60	68	0,405 (1,19)	0,145 (0,59)	38	0,340	-	5 10 15	301-0060-0000
2,5 / 63-65	73	0,370 (1,09)	0,130 (0,51)	40	0,360	-	5 10 15	301-0065-0000
- / 70	78	0,345 (1,02)	0,125 (0,44)	43	0,380	-	5 10 15	301-0070-0000
3 / 75-76	83	0,325 (0,95)	0,115 (0,39)	45	0,410	-	5 10 15	301-0075-0000
- / 80	88	0,305 (0,89)	0,110 (0,34)	48	0,440	-	5 10 15	301-0080-0000
3,5 / 89-90	98	0,270 (0,79)	0,095 (0,27)	53	0,490	-	5 10 15	301-0090-0000
4 / 100-102	108	0,245 (0,71)	0,055 (0,30)	58	0,510	-	5 10 15	301-0100-0000
- / 110	118	0,220 (0,65)	0,050 (0,25)	63	0,560	-	5 10 15	301-0110-0000
4,5 / 114-115	123	0,210 (0,62)	0,050 (0,23)	66	0,580	-	5 10 15	301-0115-0000
4,72 / 120	128	0,205 (0,59)	0,045 (0,21)	68	0,610	-	5 10 15	301-0120-0000
5 / 125-127	133	0,195 (0,57)	0,045 (0,19)	71	0,630	-	5 10 15	301-0125-0000
- / 130	138	0,185 (0,55)	0,040 (0,18)	73	0,660	-	5 10 15	301-0130-0000
5,5 / 140	148	0,175 (0,51)	0,040 (0,15)	78	0,710	-	5 10 15	301-0140-0000
6 / 150-152	158	0,160 (0,48)	0,035 (0,13)	83	0,760	-	5 10 15	301-0150-0000
6,3 / 160	168	0,150 (0,45)	0,035 (0,12)	88	0,810	-	5 10 15	301-0160-0000
7 / 178-180	188	0,135 (0,40)	0,030 (0,09)	98	0,900	-	5 10 15	301-0180-0000
8 / 200-203	208	0,120 (0,36)	0,025 (0,11)	108	1,030	-	5 10 15	301-0200-0000

Overpressure and underpressure are recommended threshold operating values, products can be subjected to higher loads upon request. The bending radius is measured through the inside of the hose arch. Additional technical data at www.norres.com. The right to make technical modifications is reserved. All values determined at 20°C and are approx. data.



I.D.	O.D.	Pressure DIN 26057 (50% Elongation) bar	Vacuum DIN 26057 (axially fixed) bar	Bending Radius mm	Weight kg/m	Minimum Quantity m	Dimensions in Stock m	Order No.
in / mm	mm							
- / 225	234	0,110 (0,32)	0,020 (0,08)	122	1,160	-	5 10	301-0225-0000
- / 250	259	0,100 (0,29)	0,020 (0,06)	136	1,280	-	5 10	301-0250-0000
10 / 254	263	0,095 (0,28)	0,020 (0,06)	144	1,300	-	5 10	301-0254-0000
11 / 280	289	0,085 (0,26)	0,020 (0,05)	149	1,430	-	5 10	301-0280-0000
- / 300	309	0,080 (0,24)	0,015 (0,04)	159	1,700	-	5 10	301-0300-0000
12 / 305	315	0,080 (0,23)	0,015 (0,04)	163	1,730	-	5 10	301-0305-0000
- / 315	325	0,075 (0,23)	0,015 (0,04)	168	1,790	-	5 10	301-0315-0000
- / 350	360	0,070 (0,20)	0,015 (0,03)	185	2,000	-	5 10	301-0350-0000
- / 400	410	0,060 (0,18)	0,015 (0,02)	210	2,260	-	5 10	301-0400-0000
- / 450	460	0,055 (0,16)	0,010 (0,02)	235	2,520	-	5 10	301-0450-0000
- / 500	510	0,050 (0,14)	0,010 (0,01)	260	2,780	-	5 10	301-0500-0000
6,5 / 165	173	0,150 (0,43)	0,035 (0,11)	91	0,830	-	5 10 15	301-0165-0000
14 / 356	366	0,070 (0,20)	0,015 (0,03)	190	2,100	-	5 10	301-0356-0000

neutral imprint: <ID> antistatic + microbe resistant + flame retardant <neutral batch no.> / no cutting

1,5 / 38	46	0,630 (1,86)	0,245 (0,73)	27	0,220	-	10	301-0038-0007
- / 40	48	0,600 (1,77)	0,235 (0,66)	28	0,230	-	10	301-0040-0007
2 / 50-51	58	0,480 (1,42)	0,170 (0,85)	33	0,280	-	10	301-0050-0007
2,36 / 60	68	0,405 (1,19)	0,145 (0,59)	38	0,340	-	10	301-0060-0007
2,5 / 63-65	73	0,370 (1,09)	0,130 (0,51)	40	0,360	-	10	301-0065-0007
- / 70	78	0,345 (1,02)	0,125 (0,44)	43	0,380	-	10	301-0070-0007
3 / 75-76	83	0,325 (0,95)	0,115 (0,39)	45	0,410	-	10	301-0075-0007
- / 80	88	0,305 (0,89)	0,110 (0,34)	48	0,440	-	10	301-0080-0007
4 / 100-102	108	0,245 (0,71)	0,055 (0,30)	58	0,510	-	10	301-0100-0007
4,72 / 120	128	0,205 (0,59)	0,045 (0,21)	68	0,610	-	10	301-0120-0007
5 / 125-127	133	0,195 (0,57)	0,045 (0,19)	71	0,630	-	10	301-0125-0007
5,5 / 140	148	0,175 (0,51)	0,040 (0,15)	78	0,710	-	10	301-0140-0007
6 / 150-152	158	0,160 (0,48)	0,035 (0,13)	83	0,760	-	10	301-0150-0007
6,3 / 160	168	0,150 (0,45)	0,035 (0,12)	88	0,810	-	10	301-0160-0007
7 / 178-180	188	0,135 (0,40)	0,030 (0,09)	98	0,900	-	10	301-0180-0007
8 / 200-203	208	0,120 (0,36)	0,025 (0,11)	108	1,030	-	10	301-0200-0007
- / 225	234	0,110 (0,32)	0,020 (0,08)	122	1,160	-	10	301-0225-0007
- / 250	259	0,100 (0,29)	0,020 (0,06)	136	1,280	-	10	301-0250-0007
- / 300	309	0,080 (0,24)	0,015 (0,04)	159	1,700	-	10	301-0300-0007

more compressed packaging approx. 5:1, neutral imprint, no cutting

1,5 / 38	46	0,630 (1,86)	0,245 (0,73)	27	0,220	150	-	301-0038-2030
- / 40	48	0,600 (1,77)	0,235 (0,66)	28	0,230	150	-	301-0040-2030
2 / 50-51	58	0,480 (1,42)	0,170 (0,85)	33	0,280	150	-	301-0050-2030
2,36 / 60	68	0,405 (1,19)	0,145 (0,59)	38	0,340	150	-	301-0060-2030
2,5 / 63-65	73	0,370 (1,09)	0,130 (0,51)	40	0,360	150	-	301-0065-2030
- / 70	78	0,345 (1,02)	0,125 (0,44)	43	0,380	150	-	301-0070-2030
3 / 75-76	83	0,325 (0,95)	0,115 (0,39)	45	0,410	100	-	301-0075-2030
- / 80	88	0,305 (0,89)	0,110 (0,34)	48	0,440	100	-	301-0080-2030
4 / 100-102	108	0,245 (0,71)	0,055 (0,30)	58	0,510	100	-	301-0100-2030
4,72 / 120	128	0,205 (0,59)	0,045 (0,21)	68	0,610	100	-	301-0120-2030
5 / 125-127	133	0,195 (0,57)	0,045 (0,19)	71	0,630	100	-	301-0125-2030
5,5 / 140	148	0,175 (0,51)	0,040 (0,15)	78	0,710	80	-	301-0140-2030
6 / 150-152	158	0,160 (0,48)	0,035 (0,13)	83	0,760	80	-	301-0150-2030
6,3 / 160	168	0,150 (0,45)	0,035 (0,12)	88	0,810	80	-	301-0160-2030

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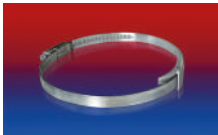
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in / mm	mm			mm	kg/m	m	m	
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8 / 200-203	208	0,120 (0,36)	0,025 (0,11)	108	1,030	60	-	301-0200-2030
- / 225	234	0,110 (0,32)	0,020 (0,08)	122	1,160	60	-	301-0225-2030
- / 250	259	0,100 (0,29)	0,020 (0,06)	136	1,280	50	-	301-0250-2030
- / 300	309	0,080 (0,24)	0,015 (0,04)	159	1,700	40	-	301-0300-2030

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Accessories



CLAMP 212



CLAMP 210 BRIDGE
CLAMP



CLAMP 217



CLAMP 213



CONNECT 228



CONNECT 223



CONNECT 270-271

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