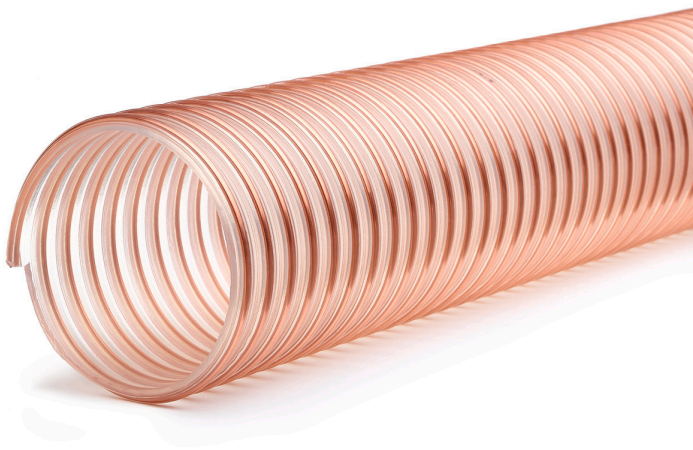
SMARTFLEX® PU 2

Very heavy weight Polyurethane hose, flame retardant



Applications conveying of abrasive media, roof graveling, vacuum conveyor, gravel conveying, suction vehicles & dredgers

Structure Polyether-Polyurethane, transparent, steel wire / spring steel wire / not coated / copper plated

Temperature -40°C up to 100°C, short term up to 125°C

Properties flame-retardant, permanently antistatic (R < 10^9 Ohm), hydrolysis & microbe resistant, very smooth inside, corrugated outside

Norms flame-retardant according to DIN 4102 / B1 | TRBS 2153/TRGS 727, ATEX 2014/34/EU / pneumatic transport of combustible dusts (inside: zone 20, 21, 22) | discharge capability according to BGI 739-2 with spiral earthing | DIN 26057-4





made in Germany

Inner Diameter (mm)	Outer Diameter (mm)	Wall Thickness (mm)	Bending Radius (mm)	Max. Operating Pressure (bar)	Vacuum Max. (bar)	Total Weight per Piece (kg)	Length (m)	Article Number
38	50,00	2,00	100	3,75	0,95	7,48	10	ND55703800K
38	50,00	2,00	100	3,75	0,95	11,21	15	ND55703800M
40	52,00	2,00	100	3,75	0,95	8,30	10	ND55704000K
40	52,00	2,00	100	3,75	0,95	12,46	15	ND55704000M
51	63,00	2,00	126	3,19	0,95	10,42	10	ND55705100K
51	63,00	2,00	126	3,19	0,95	15,63	15	ND55705100M
51	63,00	2,00	126	3,19	0,95	20,84	20	ND55705100N
60	72,00	2,00	150	2,80	0,95	12,26	10	ND55706000K
60	72,00	2,00	150	2,80	0,95	18,39	15	ND55706000M
63	75,00	2,00	155	2,70	0,95	11,70	10	ND55706300K
63	75,00	2,00	155	2,70	0,95	17,55	15	ND55706300M
65	77,00	2,00	165	2,60	0,95	13,25	10	ND55706500K
65	77,00	2,00	165	2,60	0,95	19,87	15	ND55706500M
76	88,00	2,00	190	2,25	0,95	13,90	10	ND55707600K
76	88,00	2,00	190	2,25	0,95	20,85	15	ND55707600M
80	93,00	2,00	200	2,09	0,95	14,63	10	ND55708000K
80	93,00	2,00	200	2,09	0,95	21,94	15	ND55708000M
102	115,00	2,00	290	1,90	0,95	18,35	10	ND55710200K
102	115,00	2,00	290	1,90	0,95	27,53	15	ND55710200M
115	128,00	2,00	320	1,60	0,90	20,55	10	ND55711500K
115	128,00	2,00	320	1,60	0,90	30,83	15	ND55711500M
120	133,00	2,00	350	1,55	0,90	21,38	10	ND55712000K

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All technical data, measured at 23°C, are general orientation values and are subject to production-related tolerances. Max. operating pressures apply only for short periods. Technical changes and color deviations are subject to change. Other versions are available upon request.
Date: 24.11.2026

Inner Diameter (mm)	Outer Diameter (mm)	Wall Thickness (mm)	Bending Radius (mm)	Max. Operating Pressure (bar)	Vacuum Max. (bar)	Total Weight per Piece (kg)	Length (m)	Article Number
120	133,00	2,00	350	1,55	0,90	32,07	15	ND55712000M
127	140,00	2,00	358	1,45	0,85	26,16	10	ND55712700K
127	140,00	2,00	358	1,45	0,85	39,25	15	ND55712700M
152	165,00	2,00	462	1,35	0,75	26,88	10	ND55715200K
152	165,00	2,00	462	1,35	0,75	40,33	15	ND55715200M
160	173,00	2,00	680	1,25	0,70	28,24	10	ND55716000K
200	213,00	2,00	900	1,04	0,60	35,01	10	ND55720000K
250	263,00	2,00	1.300	0,63	0,40	43,48	10	ND55725000K

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