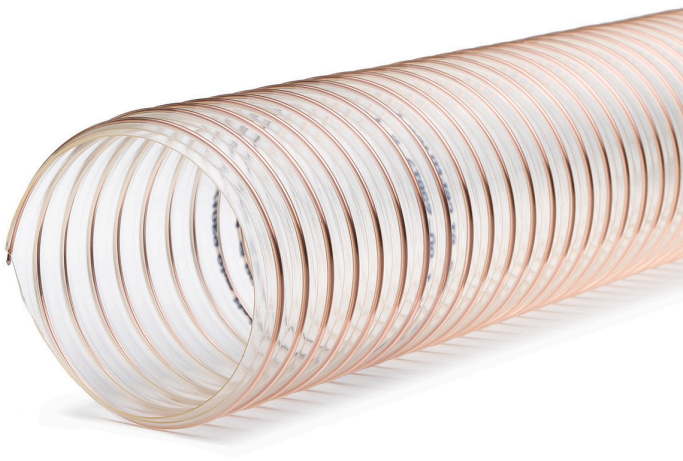
# SMARTFLEX® 0.4

Light weight and very flexible Polyurethane hose, flame retardant



**Applications** wood dust extraction, dust extraction, furniture production, extraction systems, extractions arms

**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, excellent flexibility, good oil & petrol resistance

**Norms** flame-retardant according to DIN 4102 / B1 | ATEX 2014/34/EU / pneumatic transport of combustible dusts (inside: zone 20, 21, 22), TRBS 2153/TRGS 727 | discharge capability according to BGI 739-2 with spiral earthing | DIN 26057-1







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 |
|---|---|---|---|---|---|---|---|---|
| 25 | 29,00 | 0,40 | 15 | 0,65 | 0,30 | 1,39 | 10 | 5540250100 |
| 30 | 34,00 | 0,40 | 18 | 0,60 | 0,30 | 1,64 | 10 | 5540300100 |
| 40 | 44,00 | 0,40 | 24 | 0,50 | 0,25 | 2,06 | 10 | 5540400100 |
| 40 | 44,00 | 0,40 | 24 | 0,50 | 0,25 | 3,09 | 15 | 5540400150 |
| 50 | 54,00 | 0,40 | 31 | 0,45 | 0,20 | 2,53 | 10 | 5540500100 |
| 50 | 54,00 | 0,40 | 31 | 0,45 | 0,20 | 3,79 | 15 | 5540500150 |
| 60 | 64,00 | 0,40 | 36 | 0,40 | 0,16 | 3,00 | 10 | 5540600100 |
| 60 | 64,00 | 0,40 | 36 | 0,40 | 0,16 | 4,49 | 15 | 5540600150 |
| 70 | 74,00 | 0,40 | 40 | 0,35 | 0,14 | 3,47 | 10 | 5540700100 |
| 70 | 74,00 | 0,40 | 40 | 0,35 | 0,14 | 5,20 | 15 | 5540700150 |
| 75 | 79,00 | 0,40 | 45 | 0,30 | 0,12 | 5,55 | 15 | 5540750150 |
| 80 | 84,00 | 0,40 | 48 | 0,28 | 0,10 | 3,60 | 10 | 5540800100 |
| 80 | 84,00 | 0,40 | 48 | 0,28 | 0,10 | 5,40 | 15 | 5540800150 |
| 100 | 105,00 | 0,40 | 60 | 0,20 | 0,09 | 4,62 | 10 | 5541000100 |
| 100 | 105,00 | 0,40 | 60 | 0,20 | 0,09 | 6,94 | 15 | 5541000150 |
| 120 | 125,00 | 0,40 | 72 | 0,20 | 0,08 | 4,76 | 10 | 5541200100 |
| 120 | 125,00 | 0,40 | 72 | 0,20 | 0,08 | 7,14 | 15 | 5541200150 |
| 140 | 145,00 | 0,40 | 84 | 0,15 | 0,06 | 5,54 | 10 | 5541400100 |
| 140 | 145,00 | 0,40 | 84 | 0,15 | 0,06 | 8,31 | 15 | 5541400150 |
| 150 | 155,00 | 0,40 | 90 | 0,10 | 0,06 | 6,86 | 10 | 5541500100 |
| 150 | 155,00 | 0,40 | 90 | 0,10 | 0,06 | 10,29 | 15 | 5541500150 |
| 160 | 165,00 | 0,40 | 96 | 0,09 | 0,06 | 7,31 | 10 | 5541600100 |



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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: 25.11.2026

| 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 |
|---|---|---|---|---|---|---|---|---|
| 160 | 165,00 | 0,40 | 96 | 0,09 | 0,06 | 10,96 | 15 | 5541600150 |
| 180 | 185,00 | 0,40 | 108 | 0,09 | 0,06 | 8,20 | 10 | 5541800100 |
| 200 | 206,00 | 0,40 | 120 | 0,08 | 0,05 | 9,83 | 10 | 5542000100 |
| 225 | 231,00 | 0,40 | 135 | 0,06 | 0,04 | 11,02 | 10 | 5542250100 |
| 250 | 256,00 | 0,40 | 150 | 0,05 | 0,04 | 12,21 | 10 | 5542500100 |
| 300 | 306,00 | 0,40 | 180 | 0,03 | 0,03 | 14,59 | 10 | 5543000100 |



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