Although no plastic tubing product can universally handle all applications, the PVC family of products offered by NewAge® Industries covers one of the widest ranges of applications serviced by any one type of plastic material.

Flexible PVC tubing offers a broad range of chemical and corrosion resistance, excellent abrasion and wear resistance, rubber-like flexibility, visual contact with the flow (available with clear styles), and outstanding flow characteristics. These features, along with various construction options offered (wire or braid reinforcement, rigid pipe, unreinforced) and the different formulations available (antimicrobial, phthalate free, FDA, NSF), make PVC attractive for so many applications. These include general industrial, food, beverages, chemicals, fuels, oils, and mechanical applications including protective coverings and insulation sleeving.

Stocked PVC products are supplemented with the capability to have a product custom made to fit your exact requirements. Most of NewAge Industries’ PVC tubing can be produced in custom sizes, colors, and shapes, and can be cut, printed, or thermally bonded.

**Applications**

- Agriculture & Lawn Equipment
- Air & Gas Lines
- Air Sampling
- Appliances
- Beverage Transfer
- Chemical Processing & Transfer
- Conduit
- Dairy Processing
- Electroplating
- Environmental Suits
- Filters
- Floor Cleaning Equipment
- Food & Syrup Handling
- Fuel & Oil Lines
- General Water Suction & Discharge
- Hopper Feeders
- Hospital Uses
- Hydraulics & Pneumatics
- Instrumentation
- Irrigation Systems
- Laboratory & Research Uses
- Material Handling
- Medical Appliance Components
- Mining Pumps
- Mold Coolant Lines
- Photofinishing
- Pneumatic Conveying Systems
- Pool & Spa Supply Lines
- Protective Jacketing
- Pump Feed & Discharge
- Refrigeration & Cooling Systems
- Shop Air Supply
- Sight Gauges
- Slurry Handling
- Spray Systems
- Thermal Protection
- Vacuum Lines
- Vending Machines
- Water & Fluid Lines
- Welding Gases
- Wet or Dry Food Processing
- More
Clearflo 70 phthalate-free PVC tubing was developed in response to customers’ interest in fluid transfer products that do not contain leachable phthalates, DEHP (Di-2-ethylhexyl phthalate) or BPA (bisphenol A). Clearflo 70 is an ideal tubing solution for brewing and other beverage applications.

- Phthalate, DEHP and BPA free
- Raw materials meet California Proposition 65
- Finished product meets USP Class VI requirements
- Made from non-toxic ingredients conforming to FDA standards
- Listed by the National Sanitation Foundation for food equipment materials (NSF-51)
- Glass-like clarity lets users see fluid flow
- Mirror-smooth surfaces provide outstanding flow characteristics
- Lightweight yet tough and abrasion resistant
- As flexible as rubber
- Handles a wide variety of chemicals, gases, and liquids
- Well suited for food and beverage applications including non-fatty aqueous, milk and alcoholic beverages (less than or equal to 15% ABV)*
- Raw material meets UL94 HB burn rating
- REACH and RoHS compliant
- Replaces original Clearflo tubing with 68 Shore A hardness

**Notes**

CLEARFLO 70 is generally unaffected by most oxidizing and reducing agents. Diluted acids and alkalies have little effect, though if highly concentrated they tend to make the tubing less pliable. If chemical resistance is of major concern, in-plant tests are suggested.

In clean applications, CLEARFLO 70’s smooth surface prevents lodging of bacteria and sediment buildup. It is easily drained and flushed clean with most available cleaning and sanitizing agents.

**Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness, Shore A ±3</td>
<td>70</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>2000</td>
</tr>
<tr>
<td>Elongation at Break, %</td>
<td>400</td>
</tr>
<tr>
<td>Brittle Temperature, °F</td>
<td>-41</td>
</tr>
<tr>
<td>Maximum Operating Temp., °F</td>
<td>175</td>
</tr>
</tbody>
</table>

**Recommended Fittings & Clamps**

- Cam operated couplings
- Thermobarb® barbed fittings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps


**ESOP Employee Owned for Your Benefit**

Did you know . . . ?

Through an Employee Stock Ownership Plan (ESOP), NewAge’s team members are owners of the company, and that makes your satisfaction an investment in our future.
<table>
<thead>
<tr>
<th>PART NO.</th>
<th>ID (IN.)</th>
<th>OD (IN.)</th>
<th>WALL (IN.)</th>
<th>STANDARD LENGTH (FT.)</th>
<th>WORKING PSI AT 70°F</th>
<th>LBS. PER 100 FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>113 0008</td>
<td>1/16</td>
<td>1/8</td>
<td>1/32</td>
<td>500</td>
<td>140</td>
<td>.47</td>
</tr>
<tr>
<td>113 0029</td>
<td>3/32</td>
<td>5/32</td>
<td>1/32</td>
<td>500</td>
<td>105</td>
<td>.62</td>
</tr>
<tr>
<td>113 0050</td>
<td>1/8</td>
<td>3/16</td>
<td>1/32</td>
<td>500</td>
<td>85</td>
<td>.79</td>
</tr>
<tr>
<td>113 0071</td>
<td>1/8</td>
<td>1/4</td>
<td>1/16</td>
<td>100, 500</td>
<td>141</td>
<td>1.9</td>
</tr>
<tr>
<td>113 0092</td>
<td>5/32</td>
<td>7/32</td>
<td>1/32</td>
<td>500</td>
<td>71</td>
<td>9.5</td>
</tr>
<tr>
<td>113 0113</td>
<td>5/32</td>
<td>11/32</td>
<td>3/32</td>
<td>100</td>
<td>159</td>
<td>3.8</td>
</tr>
<tr>
<td>113 0134</td>
<td>3/16</td>
<td>1/4</td>
<td>1/32</td>
<td>100</td>
<td>53</td>
<td>1.1</td>
</tr>
<tr>
<td>113 0155</td>
<td>3/16</td>
<td>5/16</td>
<td>1/16</td>
<td>100, 500</td>
<td>106</td>
<td>2.5</td>
</tr>
<tr>
<td>113 0183</td>
<td>3/16</td>
<td>3/8</td>
<td>3/32</td>
<td>100</td>
<td>141</td>
<td>4.2</td>
</tr>
<tr>
<td>113 0204</td>
<td>3/16</td>
<td>7/16</td>
<td>1/8</td>
<td>100</td>
<td>169</td>
<td>6.3</td>
</tr>
<tr>
<td>113 0225</td>
<td>1/4</td>
<td>3/8</td>
<td>1/16</td>
<td>50, 100, 500</td>
<td>85</td>
<td>3.1</td>
</tr>
<tr>
<td>113 0253</td>
<td>1/4</td>
<td>7/16</td>
<td>3/32</td>
<td>100</td>
<td>116</td>
<td>5.2</td>
</tr>
<tr>
<td>113 0281</td>
<td>1/4</td>
<td>1/2</td>
<td>1/8</td>
<td>100</td>
<td>141</td>
<td>7.5</td>
</tr>
<tr>
<td>113 0302*</td>
<td>5/16</td>
<td>7/16</td>
<td>1/16</td>
<td>100, 500*</td>
<td>71</td>
<td>3.8</td>
</tr>
<tr>
<td>113 0323</td>
<td>5/16</td>
<td>1/2</td>
<td>3/32</td>
<td>100</td>
<td>97</td>
<td>6.1</td>
</tr>
<tr>
<td>113 0344</td>
<td>5/16</td>
<td>9/16</td>
<td>1/8</td>
<td>100</td>
<td>121</td>
<td>8.8</td>
</tr>
<tr>
<td>113 0365</td>
<td>3/8</td>
<td>1/2</td>
<td>1/16</td>
<td>100, 500</td>
<td>70</td>
<td>4.4</td>
</tr>
<tr>
<td>113 0386</td>
<td>3/8</td>
<td>9/16</td>
<td>3/32</td>
<td>100</td>
<td>90</td>
<td>7.1</td>
</tr>
<tr>
<td>113 0407</td>
<td>3/8</td>
<td>5/8</td>
<td>1/8</td>
<td>50, 100</td>
<td>111</td>
<td>10.0</td>
</tr>
<tr>
<td>113 0428</td>
<td>3/8</td>
<td>3/4</td>
<td>3/16</td>
<td>100</td>
<td>141</td>
<td>17.0</td>
</tr>
<tr>
<td>113 0449</td>
<td>7/16</td>
<td>9/16</td>
<td>1/16</td>
<td>100</td>
<td>53</td>
<td>5.0</td>
</tr>
<tr>
<td>113 0477</td>
<td>7/16</td>
<td>1/16</td>
<td>1/8</td>
<td>100</td>
<td>94</td>
<td>11.3</td>
</tr>
<tr>
<td>113 0498</td>
<td>1/2</td>
<td>5/8</td>
<td>1/16</td>
<td>100, 500</td>
<td>52</td>
<td>5.7</td>
</tr>
<tr>
<td>113 0519</td>
<td>1/2</td>
<td>11/16</td>
<td>3/32</td>
<td>100</td>
<td>67</td>
<td>9.0</td>
</tr>
<tr>
<td>113 0547</td>
<td>1/2</td>
<td>3/4</td>
<td>1/8</td>
<td>50, 100</td>
<td>85</td>
<td>12.6</td>
</tr>
<tr>
<td>113 0575</td>
<td>1/2</td>
<td>1</td>
<td>1/4</td>
<td>100</td>
<td>141</td>
<td>30.1</td>
</tr>
<tr>
<td>113 0596</td>
<td>9/16</td>
<td>3/4</td>
<td>3/32</td>
<td>100</td>
<td>60</td>
<td>9.9</td>
</tr>
<tr>
<td>113 0624</td>
<td>5/8</td>
<td>3/4</td>
<td>1/16</td>
<td>100</td>
<td>39</td>
<td>6.9</td>
</tr>
<tr>
<td>113 0645</td>
<td>5/8</td>
<td>13/16</td>
<td>3/32</td>
<td>100</td>
<td>55</td>
<td>10.9</td>
</tr>
<tr>
<td>113 0666</td>
<td>5/8</td>
<td>7/8</td>
<td>1/8</td>
<td>100, 300</td>
<td>71</td>
<td>15.1</td>
</tr>
<tr>
<td>113 0687</td>
<td>5/8</td>
<td>15/16</td>
<td>5/32</td>
<td>100</td>
<td>85</td>
<td>19.7</td>
</tr>
<tr>
<td>113 0708</td>
<td>3/4</td>
<td>7/8</td>
<td>1/16</td>
<td>100</td>
<td>33</td>
<td>8.2</td>
</tr>
<tr>
<td>113 0729</td>
<td>3/4</td>
<td>1</td>
<td>1/8</td>
<td>50, 100, 300</td>
<td>61</td>
<td>17.6</td>
</tr>
<tr>
<td>113 0750</td>
<td>3/4</td>
<td>1-1/16</td>
<td>5/32</td>
<td>100</td>
<td>73</td>
<td>22.8</td>
</tr>
<tr>
<td>113 0771</td>
<td>3/4</td>
<td>1-1/8</td>
<td>3/16</td>
<td>100</td>
<td>85</td>
<td>28.3</td>
</tr>
<tr>
<td>113 0792</td>
<td>3/4</td>
<td>1-1/4</td>
<td>1/4</td>
<td>100</td>
<td>106</td>
<td>40.2</td>
</tr>
<tr>
<td>113 0813</td>
<td>7/8</td>
<td>1-1/8</td>
<td>1/8</td>
<td>100</td>
<td>53</td>
<td>20.1</td>
</tr>
<tr>
<td>113 0834</td>
<td>1</td>
<td>1-1/4</td>
<td>1/8</td>
<td>50, 100</td>
<td>42</td>
<td>22.6</td>
</tr>
<tr>
<td>113 0862</td>
<td>1</td>
<td>1-3/8</td>
<td>3/16</td>
<td>100</td>
<td>67</td>
<td>35.8</td>
</tr>
<tr>
<td>113 0883</td>
<td>1</td>
<td>1-1/2</td>
<td>1/4</td>
<td>100</td>
<td>85</td>
<td>50.2</td>
</tr>
<tr>
<td>113 0911</td>
<td>1-1/4</td>
<td>1-1/2</td>
<td>1/8</td>
<td>50, 100</td>
<td>39</td>
<td>27.6</td>
</tr>
<tr>
<td>113 0932</td>
<td>1-1/4</td>
<td>1-5/8</td>
<td>3/16</td>
<td>50, 100</td>
<td>77</td>
<td>43.3</td>
</tr>
<tr>
<td>113 0953</td>
<td>1-1/4</td>
<td>1-3/4</td>
<td>1/4</td>
<td>50</td>
<td>71</td>
<td>60.3</td>
</tr>
<tr>
<td>113 0974</td>
<td>1-1/2</td>
<td>1-3/4</td>
<td>1/8</td>
<td>50, 100</td>
<td>33</td>
<td>32.7</td>
</tr>
<tr>
<td>113 0995</td>
<td>1-1/2</td>
<td>1-7/8</td>
<td>3/16</td>
<td>25, 50, 100</td>
<td>47</td>
<td>50.9</td>
</tr>
<tr>
<td>113 1037</td>
<td>1-1/2</td>
<td>2</td>
<td>1/4</td>
<td>50</td>
<td>61</td>
<td>70.3</td>
</tr>
<tr>
<td>113 1058</td>
<td>1-3/4</td>
<td>2</td>
<td>1/8</td>
<td>50</td>
<td>38</td>
<td>37.7</td>
</tr>
<tr>
<td>113 1079</td>
<td>1-3/4</td>
<td>2-1/4</td>
<td>1/4</td>
<td>50</td>
<td>53</td>
<td>80.4</td>
</tr>
<tr>
<td>113 1100</td>
<td>2</td>
<td>2-1/4</td>
<td>1/8</td>
<td>50</td>
<td>25</td>
<td>42.7</td>
</tr>
<tr>
<td>113 1121</td>
<td>2</td>
<td>2-1/2</td>
<td>1/4</td>
<td>50</td>
<td>47</td>
<td>90.4</td>
</tr>
<tr>
<td>113 1142*</td>
<td>2-1/4</td>
<td>2-3/4</td>
<td>1/4</td>
<td>50</td>
<td>67</td>
<td>100.5</td>
</tr>
<tr>
<td>113 1163*</td>
<td>2-1/2</td>
<td>3</td>
<td>1/4</td>
<td>50</td>
<td>33</td>
<td>110.5</td>
</tr>
<tr>
<td>113 1184*</td>
<td>3</td>
<td>3-1/2</td>
<td>1/4</td>
<td>50</td>
<td>33</td>
<td>130.6</td>
</tr>
<tr>
<td>113 1205*</td>
<td>4</td>
<td>4-3/4</td>
<td>3/8</td>
<td>25, 50</td>
<td>36</td>
<td>263.7</td>
</tr>
</tbody>
</table>

Add length suffix to part number when ordering. Example: 100 ft. of 1" I.D. x 1-1/4" O.D. tubing is part number 113 0834-100.

Working pressures are calculated from burst pressures using a 3:1 safety factor. Application testing is recommended.

Cut coils are available from coils of 100 ft. or less; charges apply — call for details. Coils over 100 ft. are sold by standard coil length only.

**BOLD** indicates the critical dimension for fittings application.

*Limited stock item or length; lead times and minimums may apply — call for details.

---

**Custom Services**

- Cut
- Color
- Hot Bond®
- Hardness
- Size
- Overbraid
- Heat-Form
- And More

*Call for more information: 800-506-3924 or 215-526-2300*

www.newageindustries.com
Clearflo® Ag-47

Clear Antimicrobial Non-Phthalate PVC Tubing

- Made from non-toxic ingredients conforming to FDA standards
- No phthalates, latex or animal-derived ingredients
- Listed by the National Sanitation Foundation (NSF-51) for food equipment materials
- Antimicrobial ingredient is throughout the tubing, not only on the interior as with other products
- Transparent for visual flow contact
- Contains antimicrobial technology to guard against bacteria such as E. coli, listeria, salmonella, legionella, MRSA, campylobacter and pseudomonas
- Well suited for food and beverage applications including non-fatty aqueous, milk and alcoholic beverages (up to 20% ABV; less than or equal to 8% ABV in NSF applications)
- Heat sealable
- REACH and RoHS compliant

Notes

CLEARFLO Ag-47 is suitable for a wide variety of food contact applications and designed to protect your food or beverage product from harmful bacteria. It's manufactured from a clear flexible Shore A74 non-phthalate PVC compound with the addition of antimicrobial protection. The antimicrobial technology is especially effective where there is intermittent use of fluids in warm or humid conditions and the tubing has no opportunity to dry thoroughly between uses.

The antimicrobial properties protect the tubing against organisms that can cause growth-based discoloration and odors. Testing has proven that the active ingredients neutralize bacteria rapidly, and because the ingredients do not dissipate with use, they can be expected to offer protection for an extended time under normal conditions. CLEARFLO Ag-47 offers antibacterial performance to ISO 22196:2011.

Unlike some products CLEARFLO Ag-47 is 100% protected with the effective additive, which is present throughout the tube and not only on the interior, offering you protection on all surfaces. This is especially important in applications where the tubing is dipped into a fluid.

The active ingredients in CLEARFLO Ag-47 will have no detrimental effect on yeasts used for brewing.

Physical Properties**

- Hardness, Shore A ±5
- Operating Temperature Range, °F: -40 to 125
- Operating Temperature Range, °C: -40 to 52

Recommended Fittings

- Thermobarb® plastic barbed fittings
- Stainless steel barbed fittings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps

Recommended Fittings & Clamps

**Values listed are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.
Formulated to extend tubing life in fuel and oil applications
- Handles a wide variety of fuels, oils, chemicals, gases and liquids
- Mirror-smooth surfaces provide outstanding flow characteristics
- Lightweight yet tough and abrasion resistant
- As flexible as rubber
- Raw material meets UL94 HB burn rating
- BPA free
- RoHS compliant

Notes
Transparent yellow CLEARFLO FUEL & OIL was created to extend the working life of PVC tubing in fuel and oil applications. Gasoline and oils harden standard PVC over periods of intermittent use, but CLEARFLO FUEL & OIL is specially formulated to prevent hardening.

CLEARFLO is generally unaffected by most oxidizing and reducing agents. Diluted acids and alkalies have little effect, though if highly concentrated they tend to make the tubing less pliable. If chemical resistance is of major concern, in-plant tests are suggested.

Physical Properties**

- Hardness, Shore A ±5: 62
- Tensile Strength, psi: 1980
- Elongation at Break, %: 730
- Brittle Temperature, °F: -20
- Maximum Operating Temp., °F: 175

**Values listed are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

Recommended Fittings & Clamps

- Cam operated couplings
- Thermobarb® barbed fittings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps

Did you know . . . ?
Our AdvantaPure® product line addresses the high purity needs of the biopharm and pharmaceutical industries.
Open mesh polyester braiding permanently encapsulated in walls of clear, flexible PVC tubing

- Phthalate, DEHP and BPA free
- Raw materials meet California Proposition 65
- Listed by the National Sanitation Foundation for food equipment materials (NSF-51)
- Non-toxic raw materials conform to USP Class VI and FDA standards
- Offers much greater pressure capabilities than unreinforced PVC tubing
- Mirror smooth interior permits outstanding flow characteristics
- Crystal clear for full visual flow
- Corrosion and abrasion resistant with flexibility similar to rubber but with much longer life
- Well suited for food and beverage applications including non-fatty aqueous, milk and alcoholic beverages (less than or equal to 8% ABV)
- REACH and RoHS compliant

**Notes**

NYLOBRADE® is made from non-toxic ingredients selected from those sanctioned by the Food and Drug Administration (FDA) for use in food contact applications. Its NSF certification makes NYLOBRADE® a good choice for drinking water applications, though if highly concentrated tend to make the hose less pliable. If chemical resistance is in question, in-plant tests are suggested.

NYLOBRADE® is generally unaffected by most oxidizing and reducing agents. Diluted acids and alkalis have little effect, though if highly concentrated tend to make the hose less pliable. If chemical resistance is in question, in-plant tests are suggested.

Gasoline and oils will harden PVC over periods of intermittent use. In these applications, continuous use will slow the hardening process.

NYLOBRADE® HP (High Pressure) sizes 3/8” I.D. and up have a tighter braid pattern and therefore reduce the visual flow contact and increase the hose’s resistance to bending and flexing. Heavier walls on similar I.D.s will be more resistant to kinking.

**Physical Properties**

- Hardness, Shore A ±5: 80
- Tensile Strength, psi: 2500
- Elongation at Break, %: 300
- Brittle Temperature, °F: -50
- Maximum Operating Temperature, °F: 175
- Maximum Operating Temp. for NSF, °F: 140

**Recommended Fittings & Clamps**

- Thermobarb® barbed fittings
- Cam operated couplings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps

**Custom Services**

- Overbraid
- Hot Bond
- Heat-Form
- Hardness
- Cut Size Color More

Call for more information
800-506-3924

www.newageindustries.com
Spiral steel wire reinforcement incorporated within the wall of flexible PVC tubing
- Made from non-toxic ingredients conforming to FDA standards
- Kink and crush resistant
- Handles pressure and full vacuum (29.9 in./Hg.) applications
- Glass-like clarity with mirror-smooth surfaces provide outstanding visual flow characteristics
- Lightweight (compared to rubber hoses) yet tough and abrasion resistant

Clear Steel Wire Reinforced PVC Suction Hose

Notes
VARDEX, with its steel wire reinforcement coil, is specially suited for applications where resistance to kinking is of primary importance. A proprietary construction technique employed during the manufacture of VARDEX permits full vacuum capabilities (29.9 in./Hg.) for all sizes without hose collapse.

Constructed of corrosion-resistant PVC, VARDEX can be used to transport various chemicals in areas with tight turns and sharp bends. Its bend radius is approximately four times the I.D.

For easy identification, VARDEX is imprinted with the trademarked name.

Physical Properties**

| PART NO. | ID (IN.) | OD (IN.) | WALL (IN.) | WORKING PSI AT 70°F | BEND RADIUS (IN.) | LBS. PER 100 FT.
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>140 0070</td>
<td>1/4</td>
<td>29/64</td>
<td>.102</td>
<td>200</td>
<td>1</td>
<td>7.0</td>
</tr>
<tr>
<td>140 0112</td>
<td>3/8</td>
<td>.610</td>
<td>.118</td>
<td>175</td>
<td>1-1/2</td>
<td>11.5</td>
</tr>
<tr>
<td>140 0154</td>
<td>1/2</td>
<td>.748</td>
<td>.124</td>
<td>140</td>
<td>2</td>
<td>15.0</td>
</tr>
<tr>
<td>140 0196</td>
<td>5/8</td>
<td>29/32</td>
<td>9/64</td>
<td>100</td>
<td>2-1/2</td>
<td>19.8</td>
</tr>
<tr>
<td>140 0238</td>
<td>3/4</td>
<td>1.024</td>
<td>.137</td>
<td>100</td>
<td>3</td>
<td>24.0</td>
</tr>
<tr>
<td>140 0280</td>
<td>1</td>
<td>1.319</td>
<td>.160</td>
<td>85</td>
<td>4</td>
<td>37.6</td>
</tr>
<tr>
<td>140 0322</td>
<td>1-1/4</td>
<td>1.634</td>
<td>.192</td>
<td>85</td>
<td>4-1/2</td>
<td>49.0</td>
</tr>
<tr>
<td>140 0364</td>
<td>1-1/2</td>
<td>1.909</td>
<td>.205</td>
<td>85</td>
<td>6</td>
<td>67.2</td>
</tr>
<tr>
<td>140 0406</td>
<td>2</td>
<td>2.382</td>
<td>.191</td>
<td>70</td>
<td>8</td>
<td>85.0</td>
</tr>
</tbody>
</table>

Standard coil length is 100 ft. Add length suffix to part number when ordering. Example: 100 ft. of 2" I.D. x 2.382" O.D. hose is part number 140 0406-100.
Working pressures are calculated from burst testing using a 3:1 safety factor. Application testing is recommended.

BOLD indicates the critical dimension for fittings application.

Recommended Fittings & Clamps
- Thermobarb® barbed fittings
- Cam operated couplings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps

Did you know . . . ?
NewAge’s BrewSavor® product line serves the craft brewing, home brewing and beverage dispensing markets.

www.newageindustries.com
Spiral Reinforced PVC Suction Hose

- 100% PVC construction
- Spiral reinforcement made from rigid PVC to resist impact, crushing, and kinking
- Lighter than ply-wrapped rubber and other similar hoses
- Available in Food or Industrial Grades
- Food Grade made from non-toxic ingredients conforming to FDA and 3-A standards
- Smooth interior produces low friction loss permitting maximum flow

Notes

NEWFLEX reinforced suction hose is widely used throughout industry for both positive and negative pressure applications. Its advanced design allows the use of lightweight, corrosion-resistant PVC to replace bulkier and heavier ply-wrapped rubber hose.

NEWFLEX series ‘FH’ and ‘FHS’ are clear, allowing the user to have full visual contact with the flow of material inside. The Food Grade lines are made from FDA-approved ingredients suitable for food and beverage handling. The smooth interior is easily sterilized and cleaned. Both types have a vacuum rating of 28 in./Hg.

NEWFLEX series ‘VFH’ is produced from a clear FDA core with an industrial grade white helix, which is not exposed to the hose I.D. It can handle light-duty pressure discharge, gravity feed, and moderate vacuum applications.

Physical Properties**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>FH &amp; FHS</th>
<th>VFH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness, Shore A ±5</td>
<td>65</td>
<td>70</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>1900</td>
<td>2000</td>
</tr>
<tr>
<td>Elongation at Break, %</td>
<td>440</td>
<td>420</td>
</tr>
<tr>
<td>Brittle Temperature, °F</td>
<td>-45</td>
<td>-42</td>
</tr>
<tr>
<td>Max. Operating Temperature, °F</td>
<td>150</td>
<td>140</td>
</tr>
</tbody>
</table>

**Values listed are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

Recommended Fittings & Clamps

- Cam operated couplings
- Thermobarb® barbed fittings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps

Custom Services

- Size
- Color

Call for more information: 800-506-3924 or 215-526-2300

Did you know . . . ?

D&B® has awarded NewAge with a 4A1 credit rating, the highest attainable rating for a company our size.
**NEWFLEX FH** – Standard Duty – Clear, Convoluted O.D.

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>ID (IN.)</th>
<th>OD (IN.)</th>
<th>WORKING PSI AT 70°F</th>
<th>VACUUM RATE (IN./Hg.)</th>
<th>BEND RADIUS (IN.)</th>
<th>LBS. PER 100 FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 0101</td>
<td>1</td>
<td>1-1/4</td>
<td>60</td>
<td>28</td>
<td>2</td>
<td>19</td>
</tr>
<tr>
<td>120 0178</td>
<td>1-1/4</td>
<td>1-5/8</td>
<td>50</td>
<td>28</td>
<td>3</td>
<td>29</td>
</tr>
<tr>
<td>120 0255*</td>
<td>1-1/2</td>
<td>1-13/16</td>
<td>50</td>
<td>28</td>
<td>3</td>
<td>34</td>
</tr>
<tr>
<td>120 0332*</td>
<td>1-3/4</td>
<td>2-3/32</td>
<td>45</td>
<td>28</td>
<td>4</td>
<td>40</td>
</tr>
<tr>
<td>120 0409</td>
<td>2</td>
<td>2-3/8</td>
<td>45</td>
<td>28</td>
<td>4</td>
<td>50</td>
</tr>
<tr>
<td>120 0486*</td>
<td>2-1/4</td>
<td>2-5/8</td>
<td>40</td>
<td>28</td>
<td>5</td>
<td>55</td>
</tr>
<tr>
<td>120 0563*</td>
<td>2-1/2</td>
<td>2-15/16</td>
<td>40</td>
<td>28</td>
<td>6</td>
<td>77</td>
</tr>
<tr>
<td>120 0640*</td>
<td>3</td>
<td>3-7/16</td>
<td>35</td>
<td>28</td>
<td>8</td>
<td>102</td>
</tr>
<tr>
<td>120 0717*</td>
<td>4</td>
<td>4-9/16</td>
<td>35</td>
<td>28</td>
<td>10</td>
<td>164</td>
</tr>
</tbody>
</table>

Standard coil length is 100 ft. Add length suffix to part number when ordering. Example: 100 ft. of 1-1/4” I.D. x 1-5/8” O.D. hose is part number 120 0178-100.

Working pressures are calculated from burst testing using a 3:1 safety factor. Application testing is recommended.

**BOLD** indicates the critical dimension for fittings application.

*Limited stock item; lead times and minimums may apply — call for details.

**NEWFLEX FHS** – Heavy Duty – Clear or Clear with White Helix, Smooth O.D.

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>FOOD GRADE</th>
<th>ID (IN.)</th>
<th>OD (IN.)</th>
<th>WORKING PSI AT 70°F</th>
<th>VACUUM RATE (IN./Hg.)</th>
<th>BEND RADIUS (IN.)</th>
<th>LBS. PER 100 FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>121 0181</td>
<td>FOOD</td>
<td>3/4</td>
<td>15/16</td>
<td>105</td>
<td>28</td>
<td>3</td>
<td>20</td>
</tr>
<tr>
<td>121 0258*</td>
<td>INDUSTRIAL</td>
<td>1</td>
<td>1-1/4</td>
<td>100</td>
<td>28</td>
<td>3</td>
<td>27</td>
</tr>
<tr>
<td>121 0335</td>
<td></td>
<td>1-1/4</td>
<td>1</td>
<td>95</td>
<td>28</td>
<td>3</td>
<td>30</td>
</tr>
<tr>
<td>121 0412</td>
<td></td>
<td>1-1/2</td>
<td>1-13/16</td>
<td>85</td>
<td>28</td>
<td>4</td>
<td>40</td>
</tr>
<tr>
<td>121 0489</td>
<td></td>
<td>2</td>
<td>2-3/8</td>
<td>80</td>
<td>28</td>
<td>5</td>
<td>60</td>
</tr>
<tr>
<td>121 0566*</td>
<td></td>
<td>2-1/2</td>
<td>2-7/8</td>
<td>75</td>
<td>28</td>
<td>7</td>
<td>85</td>
</tr>
<tr>
<td>121 0643*</td>
<td></td>
<td>3</td>
<td>3-7/16</td>
<td>65</td>
<td>28</td>
<td>8</td>
<td>115</td>
</tr>
<tr>
<td>121 0797*</td>
<td></td>
<td>4</td>
<td>4-1/2</td>
<td>50</td>
<td>28</td>
<td>10</td>
<td>175</td>
</tr>
</tbody>
</table>

*Food Grade is all Clear; Industrial Grade has a White Helix.

Standard coil length is 100 ft. Add length suffix to part number when ordering. Example: 100 ft. of 3/4” I.D. x 15/16” O.D. Food Grade hose is part number 121 0181-100.

Working pressures are calculated from burst testing using a 3:1 safety factor. Application testing is recommended.

**BOLD** indicates the critical dimension for fittings application.

*Limited stock item; lead times and minimums may apply — call for details.

**NEWFLEX VFH** – Light Duty – Clear with White Helix, Convoluted O.D.

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>ID (IN.)</th>
<th>OD (IN.)</th>
<th>VACUUM RATE (IN./Hg.)</th>
<th>BEND RADIUS (IN.)</th>
<th>LBS. PER 100 FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>124 0176</td>
<td>3/8</td>
<td>.570</td>
<td>24</td>
<td>1/2</td>
<td>5</td>
</tr>
<tr>
<td>124 0253</td>
<td>1/2</td>
<td>.700</td>
<td>24</td>
<td>1/2</td>
<td>6</td>
</tr>
<tr>
<td>124 0330</td>
<td>5/8</td>
<td>.830</td>
<td>24</td>
<td>5/8</td>
<td>8</td>
</tr>
<tr>
<td>124 0407</td>
<td>3/4</td>
<td>.965</td>
<td>24</td>
<td>3/4</td>
<td>10</td>
</tr>
<tr>
<td>124 0484*</td>
<td>1</td>
<td>1-1/4</td>
<td>24</td>
<td>1</td>
<td>14</td>
</tr>
<tr>
<td>124 0561</td>
<td>1-1/4</td>
<td>1-1/2</td>
<td>22</td>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td>124 0638*</td>
<td>1-1/2</td>
<td>1-13/16</td>
<td>20</td>
<td>2</td>
<td>20</td>
</tr>
<tr>
<td>124 0715*</td>
<td>2</td>
<td>2-3/8</td>
<td>18</td>
<td>2</td>
<td>34</td>
</tr>
</tbody>
</table>

Standard coil length is 100 ft. Add length suffix to part number when ordering. Example: 100 ft. of 3/8” I.D. x .570” O.D. hose is part number 124 0176-100.

This series has no positive pressure ratings. Increasing pressure will cause the hose to elongate and expand. If pressure is a concern, in-plant testing is advised.

**BOLD** indicates the critical dimension for fittings application.

*Limited stock item; lead times and minimums may apply — call for details.
Nylobrade® Push-On

Premium Thermoplastic Push-On Style Hose

- A blend of nitrile rubber and PVC reinforced with polyester
- Specially designed for use with Push-On style barbed fittings which eliminate the need for clamps
- Non-marking cover, resistant to U.V., ozone, and abrasion
- Electrically non-conductive
- Offers cold temperature flexibility
- Well suited for air and water lines and outdoor use
- Silicone free — use as air hose in paint applications
- Lighter weight and more abrasion resistant than all-rubber, push-on style hose

Notes

NYLOBRADE PUSH-ON may be used up to 200 psi at 68°F. Elevated temperatures require in-field testing to determine suitability for use without clamps. The opaque black color of NYLOBRADE PUSH-ON helps hide dirt and scuff marks.

Physical Properties**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>ID (IN.)</th>
<th>OD (IN.)</th>
<th>WALL (IN.)</th>
<th>WORKING PSI AT 68°F</th>
<th>BEND RADIUS (IN.)</th>
<th>LBS. PER 100 FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>431 0054</td>
<td>.260</td>
<td>.500</td>
<td>.120</td>
<td>200</td>
<td>2.50</td>
<td>8</td>
</tr>
<tr>
<td>431 0082</td>
<td>.318</td>
<td>.570</td>
<td>.123</td>
<td>200</td>
<td>3.20</td>
<td>10</td>
</tr>
<tr>
<td>431 0110</td>
<td>.510</td>
<td>.750</td>
<td>.120</td>
<td>200</td>
<td>5.00</td>
<td>14</td>
</tr>
<tr>
<td>431 0138</td>
<td>.635</td>
<td>.880</td>
<td>.120</td>
<td>200</td>
<td>6.25</td>
<td>17</td>
</tr>
<tr>
<td>431 0166</td>
<td>.765</td>
<td>1.040</td>
<td>.133</td>
<td>200</td>
<td>7.50</td>
<td>20</td>
</tr>
</tbody>
</table>

Standard coil length is 100 ft. Add length suffix to part number when ordering. Example: 100 ft. of .260” I.D. x .500” O.D. tubing is part number 431 0054-100.

Working pressures are calculated from burst testing using a 4:1 safety factor. Application testing is recommended.

Cut coils are available; charges apply — call for details.

**Values listed are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

Recommended Fittings & Clamps

(These fittings may require clamps)

- Thermobarb® barbed fittings
- Cam operated couplings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps

Did you know . . . ?

100% of our extruded tubing is continuously inline laser monitored for size.

Call for more information:
800-506-3924 or 215-526-2300

Custom Services

Cut  ■  Size  ■  Color
Hytre®-Lined PVC

Made from FDA-compliant ingredients; suitable for food contact
- Hytrel liner does not contain plasticizers
- Hytrel liner resists high temperatures and oils, making it ideal for hot beverage vending machine applications
- Low permeability to refrigerant gases, hydrocarbons and moisture
- Superior barrier and dielectric characteristics — well suited for welding applications
- Odorless, tasteless, and inert
- Good weathering properties — resists U.V. exposure, ozone, gases, moisture and temperatures
- Low adherence of particulates — ideal for air sampling
- Ethylene Oxide (EtO) sterilizable
- Hytrel liner is REACH compliant

Notes

HYTREL-LINED PVC TUBING is designed to offer the flexibility and durability of PVC tubing with a liner of inert Hytrel, made by DuPont, for additional resistance to oils, high temperatures and gas permeability. A patented process molecularly bonds liner and cover to make a virtually inseparable product. This cost-saving co-extrusion permits HYTREL-LINED PVC to be substituted for all-Hytrel tubing in many applications.

The Hytrel polyester liner offers internal resistance to chemical attack, abrasion and contamination, along with a high degree of resistivity to the adherence of particulates, making HYTREL-LINED PVC exceptionally suited for use in air sampling applications.

HYTREL-LINED PVC TUBING’s black PVC cover offers excellent resistance to abrasion and oils, as well as ultraviolet exposure. The pliable PVC also provides a degree of shock resistance and insulates the tubing from electronic interference.

HYTREL-LINED PVC TUBING is made of FDA-sanctioned ingredients for use with food contact surfaces. The tubing is certified for CFR Title 21 Section 177.1550 and CFR Title 21 Section 177.2600. It may be subjected to ethylene oxide sterilization processes.

Physical Properties**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>ID (IN.)</th>
<th>OD (IN.)</th>
<th>WALL (IN.)</th>
<th>STANDARD LENGTH (FT.)</th>
<th>LBS. PER 100 FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>413 0091</td>
<td>.170</td>
<td>1/4</td>
<td>.040</td>
<td>500</td>
<td>3.0</td>
</tr>
<tr>
<td>413 0133</td>
<td>1/4</td>
<td>3/8</td>
<td>1/16</td>
<td>500</td>
<td>4.2</td>
</tr>
<tr>
<td>413 0217</td>
<td>3/8</td>
<td>1/2</td>
<td>1/16</td>
<td>250</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Sold by standard coil length only. Add length suffix to part number when ordering. Example: 500 ft. of .170” ID x 1/4” OD tubing is part number 413 0091-500. BOLD indicates the critical dimension for fittings application.

Recommended Fittings & Clamps

- Thermobarb® barbed fittings
- Newloc® push-to-connect fittings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps

Custom Services

- Cut
- Overbraid
- Size
- And More

Call for more information

800-506-3924

Did you know . . . ?

We’ve shipped 99.8% of our products defect free over the last ten years.
Clear Rigid Schedule 40 PVC Pipe

- Made from a clear†, virgin, rigid compound to permit visual contact with the flow
- Non-toxic ingredients conform to FDA standards for use with food contact surfaces
- Smooth pipe interior surface provides excellent flow characteristics
- Flame retardant; non-conductive
- Manufactured to schedule 40 dimensions; compatible with standard PVC pipe, fittings, and valves
- Quick and easy glue-on installation with primer and cement

Notes

The non-toxic compound used to manufacture CLEAR-40 is non-conductive and has a U.L. rating of 94 VO.

Because CLEAR-40 is highly corrosion resistant as well as transparent, it is used extensively in chemical, pharmaceutical, food plants, and in laboratories and hospitals where visual contact with the flow is desired.

CLEAR-40 pipe can be used interchangeably with standard schedule 40 gray or white fittings. Assemblies should be permanently glued using primer and solvent cement.

Twenty-foot pipe lengths, bell-shaped pipe ends, fittings, and schedule 80 pipe are available through minimum order — call for details.

CLEAR-40 pipe is neither recommended to be threaded nor recommended for use in applications involving compressed air or gas.

†Although CLEAR-40 is completely transparent, it does have a blue tint.

Physical Properties**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>NOM. PIPE SIZE (IN.)</th>
<th>AVG. ID (IN.)</th>
<th>MIN. WALL (IN.)</th>
<th>OD (IN.)</th>
<th>STD. LENGTH (FT.)</th>
<th>WORKING PSI @ 73°F</th>
<th>LBS. PER FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 0030*</td>
<td>1/4</td>
<td>.354</td>
<td>.088</td>
<td>.540</td>
<td>10</td>
<td>390</td>
<td>.083</td>
</tr>
<tr>
<td>150 0170</td>
<td>1</td>
<td>1.033</td>
<td>.133</td>
<td>1.315</td>
<td>10</td>
<td>220</td>
<td>.320</td>
</tr>
<tr>
<td>150 0275*</td>
<td>2</td>
<td>2.049</td>
<td>.154</td>
<td>2.375</td>
<td>10</td>
<td>140</td>
<td>.691</td>
</tr>
</tbody>
</table>

*Limited stock availability; lead times and minimums may apply — call for details.

†10 foot pipe must ship by truck. It may be cut for other shipping methods (cutting charges apply — call for details). Lengths 8 feet or shorter can ship by UPS.

**BOLD indicates the critical dimension for fittings application.

**Values listed are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

Custom Services

- Cut
- Size

Call for more information 800-506-3924

Did you know . . . ?

Our Engineering team offers prototyping, product testing, tooling design and application engineering.

Did you know . . . ?

Our Engineering team offers prototyping, product testing, tooling design and application engineering.