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, pharmaceutical and medical, chemicals, fuels, oils, and mechanical applications including protective coverings and insulation sleeving.

NewAge has added more phthalate free products to its line in response to customer demand. See NEW Clearflo 70 on pages 2 and 3.

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
- 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
- Hospitals
- Hydraulics & Pneumatics
- Instrumentation
- Irrigation Systems
- Laboratory & Research
- Material Handling
- Medical Appliance Components
- Mining Pumps
- Mold coolant Lines
- Pharmaceutical Manufacture
- Photofinishing
- Pneumatic Conveying Systems
- Pools & Spas
- Potable Water
- 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

*NEW* Clearflo® 70
Clear, phthalate-free PVC tubing

Clearflo Ag-47
Clear antimicrobial PVC tubing

Clearflo Fuel & Oil
Fuel & Oil grade PVC tubing

Nylobrade®
Clear, phthalate-free, reinforced PVC hose certified by NSF

Vardex®
Clear steel wire reinforced PVC suction hose

Newflex®
Spiral reinforced PVC suction hose

Nylobrade Push-On
Thermoplastic push-on style hose

Hytrel®-Lined PVC
Tubing of Hytrel & PVC

Clear-40®
Clear rigid schedule 40 PVC pipe

Sign up for our eNewsletter at www.newageindustries.com/extrusions
NEW 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 and for the transfer of fluids, gases and air in the medical device and health care markets.

- 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
- 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 alkalis 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**

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<tr>
<th>Property</th>
<th>Value</th>
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**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

Meet Some of NewAge Industries’ Owners

Through an Employee Stock Ownership Plan (ESOP), we’re owners of the company, and that makes your satisfaction an investment in our future.

ESOP Employee Owned for Your Benefit

Ted Seiberlich
Quality Engineer/Owner
1 year

Kyle Murphy
Manufacturing Engineer/Owner
6 years

Stephen McDevitt
Inside Sales Mgr./Owner
18 years

Kea Kim
Silicone Molding/Owner
1 year

Borin Ouch
Silicone Manufacturing/Owner
4 years

Mary Volk
Finance Director/Owner
18 years

Sam Robinson
Fabricator/Owner
1 year

www.newageindustries.com
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Add length suffix to part number when ordering. Example: 100 ft. of 1 in. I.D. x 1-1/4 in. 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.

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

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

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<th>OD (IN.)</th>
<th>WALL (IN.)</th>
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Standard coil length is 100 ft. Add length suffix to part number when ordering. Example: 100 ft. of 3/16” I.D. x 5/16” O.D. tubing is part number 1190035-100. Sold by standard coil length only. BOLD indicates the critical dimension for fittings application.

Physical Properties**

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

**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

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

<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>111 0032</td>
<td>1/8</td>
<td>1/4</td>
<td>1/16</td>
<td>50</td>
<td>68</td>
<td>2.1</td>
</tr>
<tr>
<td>111 0067</td>
<td>3/16</td>
<td>5/16</td>
<td>1/16</td>
<td>100</td>
<td>55</td>
<td>2.8</td>
</tr>
<tr>
<td>111 0102</td>
<td>1/4</td>
<td>3/8</td>
<td>1/16</td>
<td>50, 100</td>
<td>55</td>
<td>3.5</td>
</tr>
<tr>
<td>111 0172</td>
<td>1/2</td>
<td>3/4</td>
<td>1/8</td>
<td>50</td>
<td>45</td>
<td>12.8</td>
</tr>
</tbody>
</table>

Add length suffix to part number when ordering. Example: 50 ft. of 1/8” I.D. x 1/4” O.D. tubing is part number 111 0032-50. Sold by standard coil length only. 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.

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

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

More NewAge Industries’ Owners

Did you know . . . ?
Our AdvantaPure® product line addresses the high purity needs of the biopharm and pharmaceutical industries.

ESOP Employee Owned for Your Benefit

Keith Simon  Plastic Manufacturing Supv./Owner 21 years
Sros Poul  Fabricator/Owner 8 years
Beth Miller  Customer Service Rep./Owner 3 years

Hoang Ngo  Silicone Manufacturing/Owner 1 year
Dawn MacDonald  Buyer/Planner/Owner / 10 years
Sokmey Soeun  Silicone Molding/Owner 1 year
Emmanuel Serrano  Plastic Manufacturing/Owner 5 years

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

Notes

www.newageindustries.com
**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

**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, those involving water at temperatures up to 60°C (140°F), and food processing applications.

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.

---

**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**

- Cut
- Color
- Size
- Overbraid
- Heat-Form
- Hardness
- And More

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

**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**

- Hardness, Shore A ±5
- Tensile Strength, psi
- Elongation at Break, %
- Brittle Temperature, °F
- Maximum Operating Temperature, °F

**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**

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

**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**

- Cut
- Size
- Color

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

**More NewAge Industries’ Owners**

**Did you know . . . ?**

D&B® has awarded NewAge with a 4A1 credit rating, the highest attainable rating for a company our size.

**ESOP** Employee Owned for Your Benefit

- Michael Tangreti
  Director of Marketing/Owner
  17 years

- Julia Maurer
  Technical Sales Rep./Owner
  3 years

- Nang Chhoeung
  Plastic Manufacturing Supv./Owner
  22 years

- Andre Cooley
  Silicone Manufacturing/Owner
  5 years

- Socheatha Vorn
  Quality Inspector/Owner
  2 years

- Yelena Yakovlev
  Software Developer/Owner
  10 years

- Ricco Nhean
  Silicone Manufacturing/Owner
  1 year

www.newageindustries.com
### 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 3/8" I.D. x 1-5/8" O.D. hose is part number 120 0178-100. Cut coils available; charges apply — call for details.

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>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>121 0181</td>
<td>123 0180</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>123 0257</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>123 0334</td>
<td>1-1/4</td>
<td>1-1/2</td>
<td>95</td>
<td>28</td>
<td>3</td>
<td>30</td>
</tr>
<tr>
<td>121 0412</td>
<td>123 0411</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>123 0488</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>123 0565*</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 0642*</td>
<td>123 0642*</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>123 0796*</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. Cut coils available; charges apply — call for details.

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>4/2</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>1-1/2</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. Cut coils are available; charges apply — call for details.

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

Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness, Shore A</td>
<td>75</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>1800</td>
</tr>
<tr>
<td>Ultimate Elongation, %</td>
<td>350</td>
</tr>
<tr>
<td>100% Modulus of Elasticity, %</td>
<td>1200</td>
</tr>
<tr>
<td>Brittle Temperature, °F</td>
<td>-35</td>
</tr>
<tr>
<td>Maximum Operating Temp., °F</td>
<td>150</td>
</tr>
</tbody>
</table>

Note: Pressure rating of 200 psi will decrease when hose is used above ambient temperature without 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.

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.

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

- Cut
- Size
- Color

Call for more information:

800-506-3924 or 215-526-2300

More NewAge Industries’ Owners

Did you know ... ?

We stock millions of feet of tubing and over 500,000 fittings and clamps.

Mary Marcus
Director of Quality/Owner
11 years

Joe Linquist
Craft Brew Specialist/Owner
2 years

Monica Dann
Silicone Molding Supervisor/Owner
15 years

Paul Niederhuber
Quality Engineer/Owner
1 year

Ron Kien
Silicone Manufacturing/Owner
4 years

John Litz
Business Dev. Rep./Owner
5 years

Khalil Bookard
Warehouse/Owner
1 year
Made from FDA-compliant ingredients; suitable for food contact
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

**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

**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></th>
<th>Hytrel Liner</th>
<th>PVC Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness, Shore D</td>
<td>55</td>
<td>80</td>
</tr>
<tr>
<td>Hardness, Shore A</td>
<td>6000</td>
<td>2000</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>500</td>
<td>360</td>
</tr>
<tr>
<td>Elongation at Break, %</td>
<td>-148</td>
<td>-25.6</td>
</tr>
<tr>
<td>Brittle Temperature, °F</td>
<td>160</td>
<td>160</td>
</tr>
<tr>
<td>Color</td>
<td>Light Blue</td>
<td>Black</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.**

More NewAge Industries’ Owners

**Did you know . . . ?**
We’ve shipped 99.8% of our products defect free over the last ten years.

Manny Veloso
Business Dev. Rep./Owner 1 year

Joanne Chen
Credit Specialist/Owner 3 years

Thon Nou
Silicone Manufacturing/Owner 1 year

ESOP Employee Owned for Your Benefit
www.newageindustries.com
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

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

*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.

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**

Hardness, Rockwell R 109
Tensile Strength, psi at 73°F 7300
Flexural Strength, psi at 75°F 13,400
Izod Impact, ft. lbs./in. notch at 73°F .95
Maximum Service Temperature, °F 140

**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.

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Dan Quinn Project Engineer/Owner 4 years
Robert Davey Mechanical Designer/Owner 4 years
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