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Parker Industrial Hose

Specialty PVC Products & Capabilities



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Popular Small Bore Products

Series 100 NEXCLEAR® Clear PVC Tubing

Tube:	Clear PVC, 75A durometer
Size/Pressure Range:	ID 1/16 to 2 inches / 20-65 psi max wp
Temp Range:	+25° F to +150° F (-5° C to +65° C) Working pressures are at +68° F (+20° C). Higher temperatures reduce the available working pressure.
Brand Method:	Black ink
Industry Standards:	<ul style="list-style-type: none">• FDA ingredients***, NSF 51 certified to 180° F (82° C)***, USP Class VI Rated Materials***• RoHS Compliant, US Government A-A-52047 Type VI Compliant• EU: Meets requirements and amendments of Resolution AP(89) for food contact
Applications:	<ul style="list-style-type: none">• Beverages, potable and pure water, wine• Air, drain, light vacuum, wire harness• General industrial, laboratories, wineries



Series 106 NEXCOL General Purpose PVC Tubing

Tube:	Black, blue, gray, green, white PVC, 75A durometer
Size/Pressure Range:	ID 1/8 to 1 inch / 25-65 psi max wp
Temp Range:	+25° F to +150° F (-5° C to +65° C) Working pressures are at +68° F (+20° C). Higher temperatures reduce the available working pressure.
Brand Method:	Not branded
Industry Standards:	None applicable
Applications:	<ul style="list-style-type: none">• Air, drain, light vacuum, wire harness• General industrial



Series 439/440 NEXVA T EVA Tubing

Tube:	Series 439: Black EVA Series 440: Natural EVA
Size/Pressure Range:	ID 3/8 to 1 inch / 70-125 psi max wp
Temp Range:	-50° F to +125° F (-45° C to +52° C) Working pressures are at +68° F (+20° C). Higher temperatures reduce the available working pressure.
Brand Method:	Series 439: White ink Series 440: Black ink
Design Factor:	3:1
Industry Standards:	RoHS (Series 440 only)
Applications:	<ul style="list-style-type: none">• Abrasive materials, anhydrous ammonia, herbicides, mild chemicals, pesticides, water• Ammonia applicators, seed insertion, sight gauges• Agriculture, general industrial, lawn and garden



Series 709 NEXSYN G55 General Purpose EPDM/TPV Tubing

Tube:	Black EPDM/TPV; 65A durometer
Size/Pressure Range:	ID 3/16 to 1 inch / 25-40 psi max wp
Temp Range:	-75° F to +180° F (-60° C to +82° C) Working pressures are at +68° F (+20° C). Higher temperatures reduce the available working pressure.
Brand Method:	Not branded
Industry Standards:	None applicable
Applications:	<ul style="list-style-type: none">• Mild acids, alkalis, chemicals; water• Drain lines, handle grips, light vacuum, peristaltic pumps



Also available as Series 714, NEXSYN F65 EPDM / TPV Tubing (natural, FDA, NSF 61 compliant tube)

Series 125 (Std Wall) / 126 (Heavy Duty) NEXBRAID® Clear PVC Hose

Tube:	Clear PVC
Size/Pressure Range:	ID 3/16 to 2 inches / 75-350 psi max wp
Temp Range:	+25° F to +150° F (-5° C to +65° C) Working pressures are at +68° F (+20° C). Higher temperatures reduce the available working pressure.
Brand Method:	Black ink
Industry Standards:	<ul style="list-style-type: none">• FDA ingredients***, NSF 51 certified to 180° F (82° C)***, USP Class VI Rated***• EU: Meets requirements and amendments of Resolution AP(89) for food contact• RoHS Compliant
Applications:	<ul style="list-style-type: none">• Beverages, potable and pure water• Dry abrasive materials, flour, grains, granules, pellets, powders, sugar• Air, flexible conduit, light vacuum, wire harness



*** All compound ingredients used in this product are listed in the US FDA CFR, Title 21. Tubing NSF 51 Listed. Compound USP Class VI rated.

Series 128 NEXBRAID® PW PVC Hose

- Tube:** Blue tint PVC
Size/Pressure Range: ID 5/8 to 2 inches / 75-250 psi max wp
Temp Range: -13° F to +150° F (-25° C to +65° C) Working pressures are at +68° F (+20° C) ambient temperature. Higher temperatures reduce the available working pressure.
- Brand Method:** Black ink
- Industry Standards:**
- Certification by NSF that the tube material conforms to the requirements of NSF Standard 61 for a maximum surface area to volume ratio of 200 square inches per liter
 - Tube compound is California Proposition 65 compliant
- Applications:**
- Potable water, pure water
 - Bottled water plants, water analysis collection
 - Municipal water supply temporary by-pass connections



Series 268 NEXSPRAY PVC Spray Hose

- Tube:** Green or yellow PVC
Size/Pressure Range: ID 3/8 to 1/2 inch / 600 psi max wp
Temp Range: +25° F to +150° F (-5° C to +65° C) Working pressures are at +68° F (+20° C). Higher temperatures reduce the available working pressure.
- Brand Method:** Black ink
- Industry Standards:** None applicable
- Applications:**
- Chemicals, herbicides, pesticides, water
 - Agriculture, commercial lawn and garden



Also available as Series 202/203 (black urethane/PVC tube)

Series 450 NEXVA EVA Hose

- Tube:** Semi-translucent natural ethyl vinyl acetate (EVA)
Size/Pressure Range: ID 1/4 to 1 inch / 150-300 psi max wp
Temp Range: -50° F to +125° F (-45° C to +52° C) Working pressures are at +68° F (+20° C). Higher temperatures reduce the available working pressure.
- Brand Method:** Black ink
- Industry Standards:** RoHS
- Applications:**
- Mild chemicals; anhydrous ammonia, herbicides, pesticides, water
 - Anhydrous ammonia applicator, light vacuum line, seed insertion, sight gauge
 - Agriculture, commercial lawn and garden



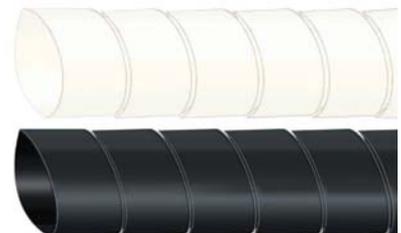
Series 715 NEXSYN H61 EPDM/TPV Hose

- Tube:** Natural EPDM/TPV
Size/Pressure Range: ID 3/8 to 5/8 inch / 200 psi max wp
Temp Range: -75° F to +180° F (-60° C to +82° C) Working pressures are at +68° F (+20° C). Higher temperatures reduce the available working pressure.
- Brand Method:** Black ink
- Industry Standards:**
- Tube material NSF 51 and NSF 61 listed
 - All ingredients in the tube compound are listed in the US FDA CFR, Title 21
 - RoHS Compliant
 - EU Directive 3003/11/EC Compliant
- Applications:**
- Beverages, potable water; mild acids, alkalis and chemicals
 - Bottled water plants, marine drinking water lines, temporary municipal water connections; dishwasher supply lines



Series 475 NEXWRAP Spiral Wrap Chafe Guard

- Material:** Black or white linear low density polyethylene (LLDPE)
Size Range: 3/8 to 1 inch
Temp Range: -50° F to +140° F (-45° C to +60° C)
Brand Method: Not branded
Industry Standards: None applicable
- Applications:**
- Hose and tubing bundling, wire harness
 - Resin infusion (manufacturing with fiberglass injection)
 - Assembly lines, fabrication shops, general industrial, manufacturing



Also available in other colors. Contact Parker.

Custom Capabilities

To meet specific design or application requirements, Parker offers a wide range of custom made capabilities for many PVC hose and tubing products. These capabilities are more applicable to small diameter items versus larger bore products (such as those shown in the Complementary PVC Hose Products section of this bulletin). Contact Parker for additional information.

Co-Extrusion

Simultaneous one-pass extrusion of multiple layers of the product

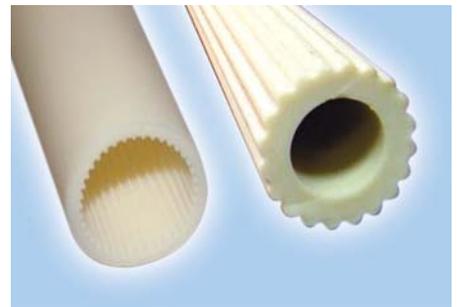
- Barrier liners for improved chemical compatibility
- Adhesive bonding layer for tube and cover materials
- Static dissipation
- Identification markings



Extrusion Profiles

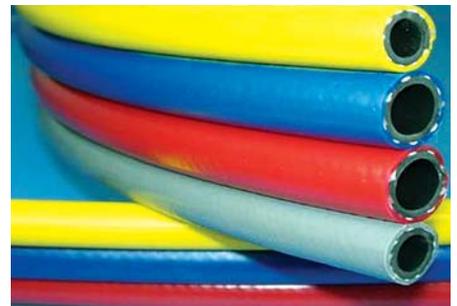
Various custom inner and outer profile extrusions

- Corrugated
- Hexagon
- Octagonal
- Ribbed



Multiple Color Options

- 20 colors available
- Exact color match available with Pantone® numbers



Production Cut Lengths

High volume production of precision cut lengths to a minimum 3/8" overall length

- Consistent square cuts
- Eliminates hose and tube curvature



Cable and Wire Insertion

Incorporate longitudinal or spiral wires; maximum of three wires and 2" ID hose

- Communication wire
- Static dissipation wire



Formed Products

- Multiple plane forming of hose and tubing
- Coil forming of hose and tubing, up to 22" inside diameter and 44" compressed length
- Custom dip molded PVC plastisol (60 to 100 durometer)
- UL listed compounds available



Bonded Products

- Thermal and bead welded hose and tubing
- Strippable and non-strippable bonds
- Multiple diameter combinations (hose and tubing)
- Available in long lengths



Hose and Tubing Bundles

- Number- and color-coding for tube line traceability
- Barrier lined tubes to eliminate taste transfer
- Integrated re-circulating coolant lines to maintain media temperature
- Closed foam insulation to eliminate moisture absorption
- Aluminized Mylar® wrapped for condensation barrier
- Extruded thermoplastic jacket to a maximum size capability of 4-1/2" OD



Applications

Agriculture

- Agricultural spraying
- Air seeder tubing and hose
- Anhydrous ammonia low pressure applicators
- Chemical applicators
- Commercial and residential lawn spraying
- Greenhouse irrigation systems
- Municipal and golf course water hose
- Pivot irrigation drop lines
- Pond aeration
 - Bubbler tubing
 - Sink tubing



Food and Beverage Processing

- FDA and NSF compliant and/or listed hose and tubing used in food process transfer applications



Food Dispensing

- Condiment dispensing (disposable packaging)
- FDA and NSF compliant and/or listed products
- Beverage-in-a-box dispensers



Potable Water

- Appliance inlet hoses and outlet tubing
- Hose and tubing made with NSF 61 compliant material for use in potable water transfer applications
- Municipal water bypass hose to 2" ID
- Riser hoses (sinks and bath fixtures)
- Water bottling systems



Medical

- Advanced wound care drainage tubes
- Hospital medical gas delivery infrastructure
- Surgical fluid evacuation/suction



Complementary PVC Large Bore Products

Series 7560 DYNAFLEX™ PVC Standard Duty Suction Hose

Tube & Cover:	Green PVC; smooth finish
Size/Pressure Range:	ID 3/4 to 6 inches / 40-120 psi max wp
Temp Range:	+23° F to +140° F (-5° C to +60° C) Working pressures are at +68° F (+20° C) ambient temperature. Higher temperatures reduce the available working pressure.
Brand Method:	No brand
Design Factor:	3:1
Industry Standards:	None applicable
Applications:	<ul style="list-style-type: none">• Abrasive materials, mild chemicals, water



Series 7541 GULLEY WASHER® PVC Standard Lay Flat Discharge Hose

Tube & Cover:	Blue Nitrile/PVC tube; blue PVC cover; smooth finish
Size/Pressure Range:	ID 1-1/2 to 8 inches / 40-80 psi max wp
Temp Range:	+14° F to +140° F (-10° C to +60° C) Working pressures are at +68° F (+20° C) ambient temperature. Higher temperatures reduce the available working pressure.
Brand Method:	No brand
Design Factor:	3:1
Industry Standards:	None applicable
Applications:	<ul style="list-style-type: none">• Mild chemicals, water



Also available with higher working pressures as Series 7542 (red) and Series 7545 (yellow)

Series 7570 DYNAFLEX™ FDA PVC Suction Hose

Tube & Cover:	Green tint PVC; wire helix; smooth finish
Size/Pressure Range:	ID 3/8 to 6 inches / 28-115 psi max wp
Temp Range:	+14° F to +140° F (-10° C to +60° C) Working pressures are at +68° F (+20° C) ambient temperature. Higher temperatures reduce the available working pressure.
Brand Method:	No brand
Design Factor:	3:1
Industry Standards:	FDA
Applications:	<ul style="list-style-type: none">• Abrasive/dry non-fatty and non-oily foods, potable water



Series 7564 DYNAFLEX™ FDA Clear PVC Suction Hose

Tube & Cover:	Clear PVC; White PVC helix; smooth finish
Size/Pressure Range:	ID 1/2 to 6 inches / 35-120 psi max wp
Temp Range:	+23° F to +140° F (-5° C to +60° C) Working pressures are at +68° F (+20° C) ambient temperature. Higher temperatures reduce the available working pressure.
Brand Method:	No brand
Design Factor:	3:1
Industry Standards:	FDA
Applications:	<ul style="list-style-type: none">• Abrasive/dry non-fatty and non-oily foods, potable water



Effects of Elevated Temperatures on PVC / Thermoplastic Hose and Tubing

The products in this bulletin are made from PVC and various thermoplastic or blended materials. PVC and thermoplastic hose and tubing achieve their optimum physical properties at room temperature, 68°F (20°C). As thermoplastic materials are exposed to increased ambient temperatures, they soften and their physical properties change. For hose and tubing, heat sharply reduces the available working pressure and coupling retention. In all cases, test the product in a controlled, secure and safe environment, and consider all operating conditions prior to use.

For additional temperature information, product data and chemical compatibility tables, refer to Parker Industrial Hose Catalog 4800 available at www.safehose.com.



For other PVC products and the complete industrial hose offering, refer to Catalog 4800, available at www.safehose.com



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