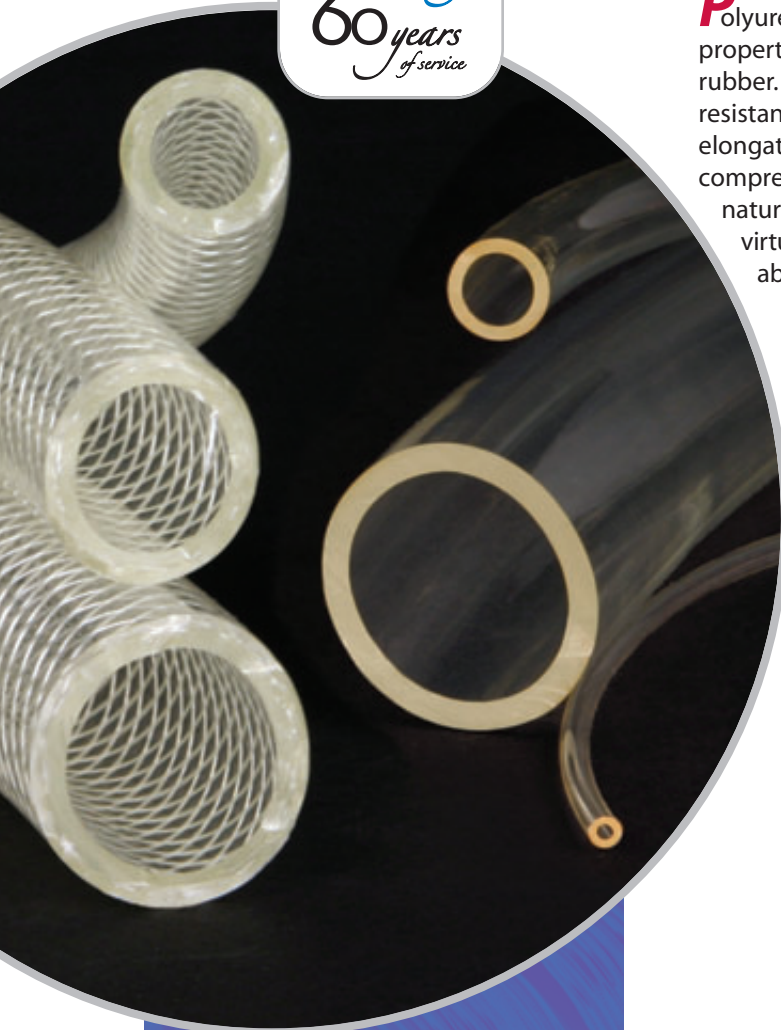


*Celebrating
over
60 years
of service*



Polyurethane combines the best properties of both plastic and rubber. It offers abrasion and tear resistance, high tensile and elongation values, and low compression set. Polyurethane is naturally flexible and exhibits virtually unlimited flexural abilities.

Combining good chemical resistance with excellent weathering characteristics sets polyurethane apart from most other thermoplastics. It has exceptional resistance to most gasolines, oils,

kerosene, and other petroleum-based chemicals, making it an ideal choice for fuel lines (although additives in today's gasoline and petroleum products warrant field testing).

The two basic formulations of urethane, ester and ether, have some important differences. Water attacks ester-based urethane, causing a significant reduction in physical properties. Ether urethanes exhibit far superior hydrolytic stability, especially in humid environments. Ether-based materials also resist fungus growth better than ester-based materials. ■

Superthane®

Transparent polyurethane tubing 2

Urebrade®

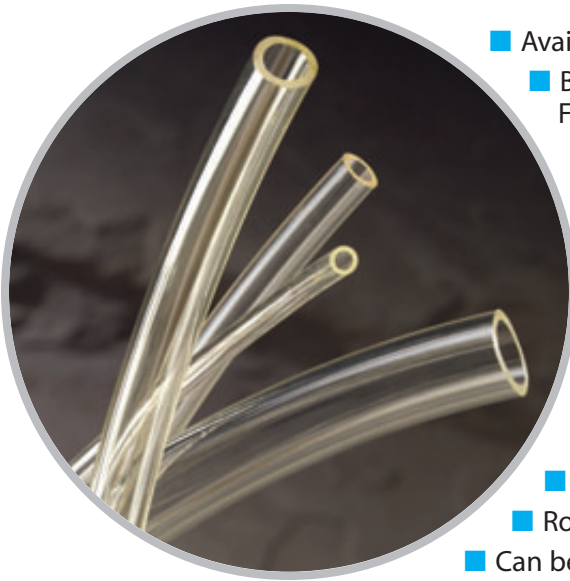
Transparent braid reinforced polyurethane hose 4

Applications

- Abrasive Powder Transfer ■ Agriculture ■ Air Tools ■ Automated Machinery ■ Automotive ■ Cement Slurries ■ Computer Disc Drive Equipment ■ Fluid Circuitry ■ Fluid Feeds ■ Granular Transfer
- Grease & Lubrication Lines ■ Hydraulic Control Systems ■ Instrumentation ■ Insulating Sleeves ■ Lubricated Air Feeds ■ Metering Pumps ■ Oil & Fuel Lines ■ Oxygen & Gas Lines ■ Petroleum Products Transfer ■ Pneumatic Control Systems ■ Pressure Measuring Devices
- Robotics ■ Sensing Systems ■ Small Motor Fuel Lines ■ Transfer Lines for Clean Liquids ■ Transfer Lines for Internal Contamination Fluids ■ Vacuum Equipment ■ Well Pipe and Cable Jacket ■ More



Transparent Polyurethane Tubing



- Available in Ester or Ether formulations
- Both formulations made from non-toxic raw materials conforming to FDA standards for use with wet and fatty food contact surfaces
- Extremely resistant to weathering†, tearing, impact, radiation, and abrasion
- Transparent, flexible, resilient, tough; resistant to oils, greases, and fuels††
- Wide range of temperature resistance: -85°F to 185°F (ester)
- Ether-based raw material is listed by the National Sanitation Foundation (NSF 61) for use with potable water
- Ester-based raw material is free of animal derived components and REACH compliant
- Free of DEHP, phthalates, BPA and conflict minerals
- RoHS compliant
- Can be heat sealed, coiled, fabricated, or bonded



Notes

†Hydrolytic Stability — For resistance to moisture and fungi, SUPERTHANE ether is recommended. (Ester polyurethane does not react well with water, prolonged humid conditions, or attack from fungi.) The raw material used in its manufacture is listed by the National Sanitation Foundation (NSF 61).

SUPERTHANE is much more resistant to pressure and vacuum applications than corresponding sizes of PVC or rubber.

††Although polyurethane is commonly used in fuel applications, due to additives in today's gasoline and petroleum products, field testing should be performed.

When used with Thermobarb® fittings, SUPERTHANE will not require clamps, provided that working pressures remain at or below 105 psi at ambient temperature.

Custom coiled polyurethane is available — call for details.

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

Physical Properties**

| | ESTER | ETHER |
|-----------------------------|-------|-------|
| Hardness, Shore A ±5 | 85 | 85 |
| Tensile Strength, psi | 6100 | 7500 |
| Elongation at Break, % | 490 | 500 |
| Brittle Temperature, °F | -85 | -85 |
| Maximum Operating Temp., °F | 185 | 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.

Custom Services

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

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

Recommended Fittings & Clamps

- Thermobarb® barbed fittings
- Cam operated couplings
- 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 part owners in the company, and that makes *your* satisfaction an investment in *our* future.



Molly Doheny
Human Resources
Manager/Owner
3 years



Randy Decker
Graphic & Web
Designer/Owner
21 years



Bunna Soth
Silicone Molding/
Owner
9 years

ESOP Employee Owned
for Your Benefit

Transparent Polyurethane Tubing

| PART NO. <i>ESTER</i> | PART NO. <i>ETHER</i> | ID (IN.) | OD (IN.) | WALL (IN.) | STANDARD LENGTH (FT.) | WORKING PSI AT 70°F | LBS. PER 100 FT. <i>ESTER</i> | LBS. PER 100 FT. <i>ETHER</i> |
|--------------------------|--------------------------|-------------|-------------|---------------|-----------------------------|---------------------------|-------------------------------------|-------------------------------------|
| 200 0075 | 210 0070 | .063 | .125 | .031 | 100 | 135 | .48 | .45 |
| | 210 0070 | .063 | .125 | .031 | 500 | 135 | | .45 |
| 200 0152 | 210 0147 | .125 | .188 | .031 | 100 | 72 | .79 | .74 |
| 200 0152 | | .125 | .188 | .031 | 1000 | 72 | .79 | |
| 200 0229 | 210 0224 | .125 | .250 | .063 | 100, 1500 | 130 | 1.92 | 1.77 |
| 200 0383 | | .170 | .250 | .040 | 500 | 70 | 1.37 | |
| 200 0460 | | .188 | .250 | .031 | 100 | 27 | 1.13 | |
| 200 0537 | 210 0455 | .188 | .313 | .063 | 100, 1000 | 74 | 2.55 | 2.38 |
| 200 0768 | 210 0609 | .250 | .313 | .031 | 100 | 33 | 1.42 | 1.33 |
| 200 0845 | 210 0686 | .250 | .375 | .063 | 100, 1000 | 67 | 3.19 | 2.98 |
| 200 0999 | 210 0840 | .250 | .500 | .125 | 100 | 131 | 7.66 | 7.15 |
| 200 1076 | 210 0917 | .313 | .438 | .063 | 100 | 65 | 3.83 | 3.57 |
| 200 1153 | | .313 | .500 | .094 | 100 | 75 | 6.24 | |
| 200 1230 | | .313 | .563 | .125 | 100 | 118 | 8.93 | |
| 200 1307 | 210 1148 | .375 | .500 | .063 | 100 | 59 | 4.47 | 4.17 |
| | 210 1148 | .375 | .500 | .063 | 500 | 59 | | 4.17 |
| 200 1384 | 210 1225 | .375 | .563 | .094 | 100 | 84 | 7.16 | 6.68 |
| 200 1461 | 210 1302 | .375 | .625 | .125 | 100 | 100 | 10.22 | 9.54 |
| 200 1615 | | .438 | .688 | .125 | 100 | 80 | 11.48 | |
| | 210 1533 | .500 | .625 | .063 | 50 | 36 | | 5.36 |
| 200 1692 | 210 1533 | .500 | .625 | .063 | 100 | 36 | 5.75 | 5.36 |
| | 210 1610 | .500 | .688 | .094 | 100 | 48 | | 8.47 |
| 200 1846 | 210 1687 | .500 | .750 | .125 | 50, 100 | 60 | 12.77 | 11.92 |
| | 210 1764 | .625 | .750 | .063 | 100 | 40 | | 6.56 |
| 200 2000 | 210 1841 | .625 | .813 | .094 | 100 | 54 | 10.98 | 10.25 |
| 200 2077 | 210 1918 | .625 | .875 | .125 | 100 | 60 | 15.33 | 14.30 |
| | 210 1995 | .750 | .938 | .094 | 100 | 43 | | 12.03 |
| 200 2231 | 210 2072 | .750 | 1.000 | .125 | 50, 100 | 51 | 17.88 | 16.69 |
| 200 2385 | 210 2226 | .875 | 1.125 | .125 | 100 | 33 | 20.43 | 19.07 |
| | 210 2380 | 1.000 | 1.250 | .125 | 50 | 40 | | 21.46 |
| 200 2539 | 210 2380 | 1.000 | 1.250 | .125 | 100 | 40 | 22.99 | 21.46 |
| | 210 2534 | 1.500 | 1.750 | .125 | 100 | 31 | | 30.99 |
| | 210 2688 | 2.000 | 2.250 | .125 | 50 | 22 | | 40.53 |

Add length suffix to part number when ordering. Example: 100 ft. of .125" I.D. x .188" O.D. ester tubing is part number 200 0152-100. Working pressures are calculated from burst testing 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. Due to the coil diameter, some larger sizes must ship via truck. Tolerances: ID & OD ±3% but not less than ±.005". **BOLD** indicates the critical dimension for fittings application.

More NewAge Industries' Owners

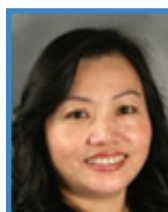
www.newageindustries.com

Did you know ... ?

We successfully undergo **multiple customer audits** each year.



Chris Boytim
Supplier Quality
Manager/ Owner
18 years



Nary Seng
Silicone Molding/
Owner
7 years



Jeremiah Brookins
Warehouse/Owner
1 year



Peter Chao
Silicone Manu-
facturing/Owner
16 years



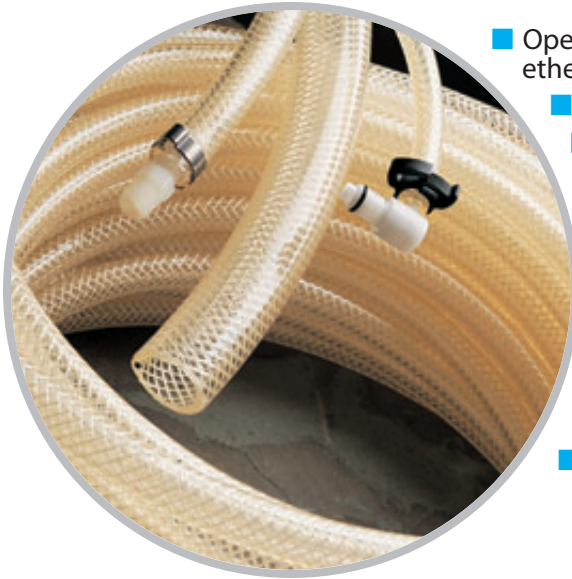
Kathy Colon
Silicone Molding/
Owner
4 years



Dan Tropea
Director of Supply
Chain/Owner
1 year

ESOP Employee Owned
for Your Benefit

Transparent Braid Reinforced Polyurethane Hose



- Open mesh polyester braiding incorporated within the wall of flexible, ether-based polyurethane
- Made from non-toxic raw ingredients conforming to FDA standards
- Raw materials are listed by the National Sanitation Foundation (NSF 61) for use with potable water
- Offers much greater pressure capability than unreinforced polyurethane tubing
- Resistant to weathering†, tearing, impact, abrasion, radiation exposure, oils, greases, and fuels††
- Wide range of temperature resistance; -90°F to 175°F
- Free of DEHP, phthalates, BPA and conflict minerals
- RoHS compliant
- Naturally transparent for visual contact with the flow



| PART NO. | ID (IN.) | OD (IN.) | WALL (IN.) | STANDARD LENGTH (FT.) | WORKING PSI AT 70°F | BEND RADIUS (IN.) | LBS. PER 100 FT. |
|----------|----------|----------|------------|-----------------------|---------------------|-------------------|------------------|
| 220 0072 | .250 | .470 | .110 | 50, 100 | 250 | .750 | 6.04 |
| 220 0149 | .375 | .630 | .127 | 50, 100 | 190 | .750 | 9.78 |
| 220 0226 | .500 | .750 | .125 | 25, 50, 100 | 150 | 1.500 | 11.92 |
| 220 0303 | .625 | .905 | .140 | 100 | 130 | 2.000 | 16.34 |
| 220 0380 | .750 | 1.025 | .137 | 50, 100 | 100 | 3.000 | 18.62 |
| 220 0457 | 1.000 | 1.300 | .150 | 25, 50, 100 | 80 | 3.500 | 26.32 |
| 220 0534 | 1.250 | 1.710 | .230 | 50, 100 | 75 | 4.000 | 51.94 |
| 220 0611 | 1.500 | 1.930 | .215 | 50, 100 | 50 | 5.500 | 56.26 |
| 220 0688 | 2.000 | 2.500 | .250 | 100 | 40 | 7.500 | 85.82 |

Notes

†Hydrolytic Stability — UREBRADE is supplied in an ether formulation, making it resistant to attack from moisture and fungi. The raw materials used in UREBRADE are listed by the National Sanitation Foundation (NSF 61).

Where applications involve repeated flexing, heavy vibration, or abrasion, UREBRADE offers superior service life over other materials.

Ester-based UREBRADE is available through minimum order — call for details.

††Due to additives in today's gasoline and petroleum products, field testing should be performed.

For easy identification, transparent UREBRADE is imprinted with the trademarked name.

Physical Properties**

| | |
|--------------------------------|------|
| Hardness, Shore A ±5 | 85 |
| Tensile Strength, psi | 5500 |
| Elongation at Break, % | 580 |
| Brittle Temperature, °F | -90 |
| Max. Operating Temperature, °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.

Add length suffix to part number when ordering. Example: 100 ft. of .250" I.D. x .470" O.D. hose is part number 220 0072-100.

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

Cut coils available; charges apply — call for details.

Due to the coil diameter, some larger sizes must ship via truck.

BOLD indicates the critical dimension for fittings application.

Custom Services

- **Cut**
- **Color**
- **Hot Bond**
- **Size**
- **Overbraid**
- **Heat-Form**
- **And More**

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

Recommended Fittings & Clamps

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

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5/12/17

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