

# Superthane®

Transparent Polyurethane Tubing

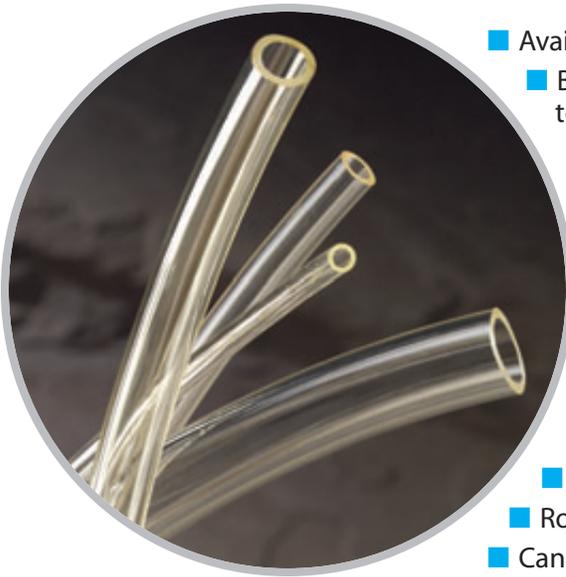


**ESOP** Employee Owned  
for Your Benefit



Fluid Transfer Specialists®

## 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.

### 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
- Hot Bond
- Hardness
- Size
- Overbraid
- Heat-Form
- And More

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

## 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  $\pm 3\%$  but not less than  $\pm .005"$ .

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



## Thermobarb® Plastic Plastic Barbed Fittings

- Precision molded in nylon-6, high density polyethylene, PVDF, polypropylene, glass-fiber reinforced nylon, or glass-fiber reinforced polypropylene
- Lightweight, compact, easy to install and disconnect
- High impact strength
- Excellent chemical resistance



## Thermobarb® Brass Brass Barbed Fittings

- Formed of forged and/or machined brass
- Tapered pipe threads are made to Dryseal USA specifications
- An industrial standard — use in all general purpose applications
- May be used in potable water systems



## Cam-Operated Couplings Two Plastic Materials

- Choose from nylon or polypropylene, both glass-fiber reinforced
- Much lighter weight than metal counterparts
- Electrically non-conductive
- Made to MIL-C-27487 dimensions — fully interchangeable with other materials made to the same standards regardless of material

## Request a Polyurethane catalog

Inside you'll find details on all of NewAge Industries' polyurethane products. Catalogs for PVC, silicone, rubber, fluoropolymer, and semi-rigid tubing and hose are available, as well as barbed fittings and clamps, push-to-connect fittings, and custom products. Contact your NewAge Industries' sales representative or local distributor to request a copy of the catalog you need, or visit [www.newageindustries.com](http://www.newageindustries.com).



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