

# RF-PU-ES RF-PU-ET

## Clear Polyurethane Tubing

### Physical Properties\*

	ES	ET
Hardness, Shore A $\pm 5$	85	85
Tensile Strength, psi	6000	5500
Elongation at Break, %	550	580
Brittle Temperature, °F	-95	-90
Max. Op. Temp., °F	185	175

\* Values listed are typical and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

## ES: Clear Ester formulated Polyurethane Tubing

## ET: Clear Ether formulated Polyurethane Tubing

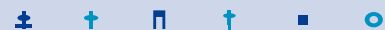
- Metering Pumps
- Robotics
- Computer Disc Drive Equipment
- Insulating Sleeves
- Small Motor fuel Lines
- Vacuum Equipment
- Pressure Measuring Devices
- Oxygen and Gas Lines
- Nuclear Power Facility Uses
- Transfer Lines for Clean Liquids
- Instrumentation
- Pneumatic Control Systems
- Hydraulic Control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

- **Available in both Ester and Ether formulations**
- **Clear, flexible, resilient, tough; resistant to oils, greases and fuels**
- **Resistant to weathering, tearing, impact, radiation and abrasion**
- RF-PU-ES has a wide range of temperature resistance: -95°F to 185°F
- **Contains no plasticizer** that can cause flow contamination or tube hardening
- **Can be heat sealed, coiled, fabricated or bonded**
- **100% incinerable** RF-PU-ET is approved by Scientific Ecology Group (S.E.G.) for the transfer of contaminated and clean liquids

**RF-PU-ET is recommended for hydrolytic stability** (resistance to moisture and fungus). Approved by the National Sanitation Foundation (NSF 51), **RF-PU-ET also resists attack from ultraviolet rays, making it a good material for outside use.** (Note: Ester polyurethane does not react well with water, prolonged humid conditions, or attack from fungus.)

RF-PU is **more resistant to pressure and vacuum applications than corresponding sizes of PVC or rubber.** When used with Thermobarb fittings or Snapflex barbed fittings, RF-PU will not require clamps, provided that working pressures remain at or below 105 psi at ambient temperature.

**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 some additives in today's gasoline and petroleum products warrant field testing).



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## Clear Polyurethane Tubing

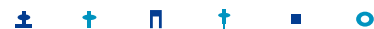
### RF-PU

ID (IN.)	OD (IN.)	STANDARD LENGTH (FT.)	WORKING PSI AT 70°F	BURST PSI AT 70°F	LBS. PER 100 FT. ESTER	LBS. PER 100 FT. ETHER	PART NO. ESTER	PART NO. ETHER
1/16	1/8	100, 5000	134	402	.48	.45	RF220075	RF230070
1/16	1/8	500	134	402		.45		RF230070
1/8	3/16	100	72	216	.79	.74	RF220152	RF230147
1/8	3/16	3000	72	216	.79		RF220152	
1/8	1/4	100, 1500	133	399	1.92	1.77	RF220229	RF230224
1/8	1/4	1000	133	399		1.77		RF230224
.170	1/4	500	70	210	1.37		RF220383	
3/16	1/4	100, 1500	27	81	1.13		RF220460	
3/16	5/16	100	74	222	2.55	2.38	RF220537	RF230455
3/16	5/16	1000	74	222		2.38		RF230455
1/4	5/16	100	33	99	1.42	1.33	RF220768	RF230609
1/4	3/8	100, 1000	67	201	3.19	2.98	RF220845	RF230686
1/4	1/2	100	131	393	7.66	7.15	RF220999	RF230840
1/4	1/2	500	131	393	7.66		RF220999	
5/16	7/16	100	65	195	3.83	3.57	RF221076	RF230917
5/16	1/2	100	75	225	6.24	5.82	RF221153	RF230994*
5/16	9/16	100	118	354	8.93		RF221230	
3/8	1/2	100	59	177	4.47	4.17	RF221307	RF231148
3/8	1/2	500	59	177		4.17		RF231148
3/8	9/16	100	84	252	7.16	6.68	RF221384	RF231225
3/8	5/8	100	100	300	10.22	9.54	RF221461	RF231302
3/8	5/8	300	100	300	10.22		RF221461	
7/16	11/16	100	80	240	11.48		RF221615	
1/2	5/8	50	36	108		5.36		RF231533
1/2	5/8	100	36	108	5.75	5.36	RF221692	RF231533
1/2	5/8	300	36	108	5.75		RF221692	
1/2	11/16	50, 100	48	144	9.07	8.47		RF231610
1/2	3/4	50, 100	60	180	12.77	11.92	RF221769*	RF231687
5/8	3/4	50, 100	40	120		6.56	RF221846	RF231764
5/8	13/16	50, 100	54	162	10.98	10.25		RF231841
5/8	7/8	50, 100	60	180	15.33	14.30	RF222000	RF231918
3/4	15/16	50, 100	43	129	12.89	12.03	RF222077	RF231995
3/4	1	50, 100	51	153	17.88	16.69		RF232072
7/8	1-1/8	50, 100	33	99	20.43	19.07	RF222231	RF232226
1	1-1/4	50, 100	40	120	22.99	21.46	RF222385	RF232380
1-1/2	1-3/4	25, 50, 100	31	93		30.99	RF222539	RF232534
2	2-1/4	25, 50	22	66		40.53		RF232688

\*Limited stock item; lead times and minimums may apply — call for details.  
 Superthane ET material is NSF approved.  
 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.  
 Tolerances: ID & OD  $\pm 3\%$  but not less than  $\pm .006"$ .

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