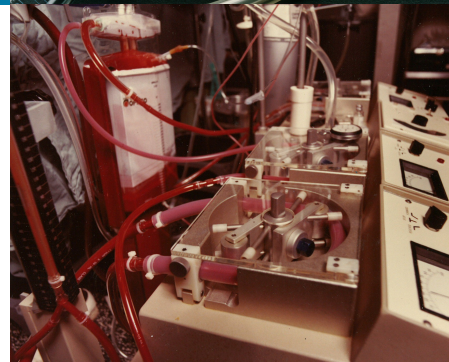




*Crystal clear  
and flexible,  
long-lasting*



### Let the evolution begin

Crystal clear and flexible, long-lasting and crack-resistant, new Tygon® LMT-55 non-DEHP laboratory and vacuum Tubing delivery the same superior performance you've come to expect, but now in a formulation that contains a non-DEHP plasticizer. Replacing DEHP with a globally accepted substitute eliminates concerns about potentially harmful health effects from repeated exposure to high levels of DEHP leachates.

Tygon® LMT-55 Tubing handles most inorganic chemicals found in the laboratory. It is non-oxidizing and non-contaminating and less permeable than rubber tubing. The glassy-smooth inner bore helps prevent buildup to facilitate cleaning and coils are marked at 30,4 cm (1 foot) intervals for easy measuring.

Tygon® LMT-55 Laboratory Tubing may be safely sterilized by autoclave and due to its excellent chemical resistance, may also be sterilized chemically or by gas (ethylene oxide).

### Engineered to last

Tygon® LMT-55 Laboratory Tubing is specially formulated for resistance to flex-fatigue and abrasion. In many peristaltic pump applications, it will outlast its nearest competitor by at least 2 to 1.

As a tubing for instrumentation connection, vent, drain and other general laboratory applications, Tygon® LMT-55 offer superior life, which minimizes the labor and expense of replacement.

### Features and Benefits

- crystal clear and flexible
- lot-to-lot consistency
- contains no BPA
- handles most inorganic chemicals
- non-oxidizing and non-contaminating
- outlasts other clear tubing in peristaltic pumps

### Typical Applications

- General laboratory
- Peristaltic and vacuum pumps
- Condensers, incubators, desiccators, gas and drain lines

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### Available in Vacuum Sizes

Tygon® LMT-55 Vacuum Tubing has extra heavy walls that will withstand a full vacuum at room temperature 760 mm (29,9") of mercury at 23°C (73°F) and up to 686 mm (27") of mercury at 60°C (140°F). Like standard Tygon® Laboratory Tubing, Tygon® LMT-55 Vacuum Tubing resists most inorganic chemicals and can be used in corrosive atmosphere.

### Tygon® LMT-55 Laboratory Tubing Standard Sizes

Part Number	ID	OD	Wall	Min. Bend Radius	Max. Working Pressure* 22°C (73°F)	Vacuum Rating at 22°C (73°F)
TY0,79LM2,38	0,79 mm (1/32")	2,38 mm (3/32")	0,79 mm (1/32")	3,2 mm	5,5 bar (80 psi)	760 mmHg
TY1,59LM3,18	1,59 mm (1/16")	3,18 mm (1/8")	0,79 mm (1/32")	6,4 mm	3,1 bar (45 psi)	760 mmHg
TY1,59LM4,76	1,59 mm (1/16")	4,76 mm (3/16")	1,59 mm (1/16")	3,2 mm	5,2 bar (45 psi)	760 mmHg
TY2,38LM3,97	2,38 mm (3/32")	3,97 mm (5/32")	0,79 mm (1/32")	9,5 mm	2,0 bar (30 psi)	760 mmHg
TY2,38LM5,56	2,38 mm (3/32")	5,56 mm (7/32")	1,59 mm (1/16")	6,4 mm	3,8 bar (55 psi)	760 mmHg
TY3,18LM4,76	3,18 mm (1/8")	4,76 mm (3/16")	0,79 mm (1/32")	12,7 mm	1,7 bar (25 psi)	508 mmHg
TY3,18LM6,35	3,18 mm (1/8")	6,35 mm (1/4")	1,59 mm (1/16")	9,5 mm	3,1 bar (45 psi)	760 mmHg
TY3,97LM5,56	3,97 mm (5/32")	5,56 mm (7/32")	0,79 mm (1/32")	9,5 mm	1,4 bar (20 psi)	305 mmHg
TY3,97LM7,14	3,97 mm (5/32")	7,14 mm (9/32")	1,59 mm (1/16")	12,7 mm	2,4 bar (35 psi)	760 mmHg
TY4,76LM6,35	4,76 mm (3/16")	6,35 mm (1/4")	0,79 mm (1/32")	25,4 mm	1,4 bar (20 psi)	229 mmHg
TY4,76LM7,94	4,76 mm (3/16")	7,94 mm (5/16")	1,59 mm (1/16")	15,9 mm	2,0 bar (30 psi)	760 mmHg
TY4,76LM9,53	4,76 mm (3/16")	9,53 mm (3/8")	2,38 mm (3/32")	12,7 mm	2,8 bar (40 psi)	760 mmHg
TY4,76LM11,11	4,76 mm (3/16")	11,11 mm (7/16")	3,18 mm (1/8")	9,5 mm	3,8 bar (55 psi)	760 mmHg
TY6,35LM7,94	6,35 mm (1/4")	7,94 mm (5/16")	0,79 mm (1/32")	41,3 mm	1,0 bar (15 psi)	127 mmHg
TY6,35LM9,53	6,35 mm (1/4")	9,53 mm (3/8")	1,59 mm (1/16")	25,4 mm	1,7 bar (25 psi)	508 mmHg
TY6,35LM11,11	6,35 mm (1/4")	11,11 mm (7/16")	2,38 mm (3/32")	19,0 mm	2,4 bar (35 psi)	760 mmHg
TY6,35LM12,7	6,35 mm (1/4")	12,7 mm (1/2")	3,18 mm (1/8")	12,7 mm	2,8 bar (40 psi)	760 mmHg
TY7,94LM11,11	7,94 mm (5/16")	11,11 mm (7/16")	1,59 mm (1/16")	34,9 mm	1,4 bar (20 psi)	330 mmHg
TY7,94LM12,7	7,94 mm (5/16")	12,7 mm (1/2")	2,38 mm (3/32")	25,4 mm	2,0 bar (30 psi)	760 mmHg
TY7,94LM14,29	7,94 mm (5/16")	14,29 mm (9/16")	3,18 mm (1/8")	22,2 mm	2,4 bar (35 psi)	760 mmHg
TY7,94LM15,88	7,94 mm (5/16")	15,88 mm (5/8")	3,97 mm (5/32")	19,0 mm	3,1 bar (45 psi)	760 mmHg
TY9,53LM12,7	9,53 mm (3/8")	12,7 mm (1/2")	1,59 mm (1/16")	38,1 mm	1,4 bar (20 psi)	229 mmHg
TY9,53LM14,29	9,53 mm (3/8")	14,29 mm (9/16")	2,38 mm (3/32")	34,9 mm	1,7 bar (25 psi)	533 mmHg
TY9,53LM15,88	9,53 mm (3/8")	15,88 mm (5/8")	3,18 mm (1/8")	28,5 mm	2,0 bar (30 psi)	760 mmHg
TY11,11LM14,29	11,11 mm (7/16")	14,29 mm (9/16")	1,59 mm (1/16")	57,2 mm	1,0 bar (15 psi)	178 mmHg
TY11,11LM15,88	11,11 mm (7/16")	15,88 mm (5/8")	2,38 mm (3/32")	44,4 mm	1,4 bar (20 psi)	381 mmHg
TY11,11LM17,46	11,11 mm (7/16")	17,46 mm (11/16")	3,18 mm (1/8")	34,9 mm	1,7 bar (25 psi)	711 mmHg
TY12,7LM15,88	12,7 mm (1/2")	15,88 mm (5/8")	1,59 mm (1/16")	73,0 mm	0,7 bar (10 psi)	127 mmHg
TY12,7LM17,46	12,7 mm (1/2")	17,46 mm (11/16")	2,38 mm (3/32")	57,1 mm	1,4 bar (20 psi)	305 mmHg
TY12,7LM19,05	12,7 mm (1/2")	19,05 mm (3/4")	3,18 mm (1/8")	38,1 mm	1,7 bar (25 psi)	533 mmHg

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Part Number	ID	OD	Wall	Min. Bend Radius	Max. Working Pressure* 22°C (73°F)	Vacuum Rating at 22°C (73°F)
TY12,7LM20,64	12,7 mm (1/2")	20,64 mm (13/16")	3,97 mm (5/32")	38,1 mm	2,0 bar (30 psi)	760 mmHg
TY14,29LM19,05	14,29 mm (9/16")	19,05 mm (3/4")	2,38 mm (3/32")	63,5 mm	1,0 bar (15 psi)	229 mmHg
TY14,29LM20,64	14,29 mm (9/16")	20,64 mm (13/16")	3,18 mm (1/8")	50,8 mm	1,4 bar (20 psi)	432 mmHg
TY15,88LM20,64	15,88 mm (5/8")	20,64 mm (13/16")	2,38 mm (3/32")	76,2 mm	1,0 bar (15 psi)	178 mmHg
TY15,88LM22,23	15,88 mm (5/8")	22,23 mm (7/8")	3,18 mm (1/8")	60,3 mm	1,3 bar (20 psi)	330 mmHg
TY15,88LM23,81	15,88 mm (5/8")	23,81 mm (15/16")	3,97 mm (5/32")	50,8 mm	1,7 bar (25 psi)	533 mmHg
TY17,46LM22,23	17,46 mm (11/16")	22,23 mm (7/8")	2,38 mm (3/32")	88,9 mm	1,0 bar (15 psi)	152 mmHg
TY19,05LM25,4	19,05 mm (3/4")	25,4 mm (1")	3,18 mm (1/8")	82,6 mm	1,2 bar (18 psi)	229 mmHg
TY19,05LM26,99	19,05 mm (3/4")	26,99 mm (1-1/16")	3,97 mm (5/32")	69,8 mm	1,4 bar (20 psi)	381 mmHg
TY19,05LM28,58	19,05 mm (3/4")	28,58 mm (1-1/8")	4,76 mm (3/16")	60,3 mm	1,7 bar (25 psi)	533 mmHg
TY19,05LM31,75	19,05 mm (3/4")	31,75 mm (1-1/4")	6,35 mm (1/4")	50,8 mm	2,0 bar (30 psi)	760 mmHg
TY22,23LM28,58	22,23 mm (7/8")	28,58 mm (1-1/8")	3,18 mm (1/8")	104,7 mm	1,0 bar (15 psi)	178 mmHg
TY22,23LM30,16	22,23 mm (7/8")	30,16 mm (1-3/16")	3,97 mm (5/32")	88,9 mm	1,4 bar (20 psi)	279 mmHg
TY25,4LM31,75	25,4 mm (1")	31,75 mm (1-1/4")	3,18 mm (1/8")	120,6 mm	1,0 bar (15 psi)	127 mmHg
TY25,4LM34,93	25,4 mm (1")	34,93 mm (1-3/8")	4,76 mm (3/16")	101,6 mm	1,4 bar (20 psi)	305 mmHg
TY25,4LM38,1	25,4 mm (1")	38,1 mm (1-1/2")	6,35 mm (1/4")	76,2 mm	1,7 bar (25 psi)	533 mmHg
TY28,58LM38,1	28,58 mm (1-1/8")	38,1 mm (1-1/2")	4,76 mm (3/16")	114,3 mm	1,2 bar (18 psi)	229 mmHg
TY31,75LM38,1	31,75 mm (1-1/4")	38,1 mm (1-1/2")	3,18 mm (1/8")	200,0 mm	0,8 bar (12 psi)	76 mmHg
TY31,75LM41,28	31,75 mm (1-1/4")	41,28 mm (1-5/8")	4,76 mm (3/16")	139,7 mm	1,0 bar (15 psi)	178 mmHg
TY31,75LM44,45	31,75 mm (1-1/4")	44,45 mm (1-3/4")	6,35 mm (1/4")	111,1 mm	1,4 bar (20 psi)	330 mmHg
TY38,1LM47,63	38,1 mm (1-1/2")	47,63 mm (1-7/8")	4,76 mm (3/16")	184,1 mm	1 bar (15 psi)	127 mmHg
TY38,1LM50,8	38,1 mm (1-1/2")	50,8 mm (2")	6,35 mm (1/4")	149,2 mm	1,2 bar (18 psi)	229 mmHg
TY44,45LM57,15	44,45 mm (1-3/4")	57,15 mm (2-1/4")	6,35 mm (1/4")	190,5 mm	1,1 bar (16 psi)	178 mmHg
TY50,8LM63,5	50,8 mm (2")	63,5 mm (2-1/2")	6,35 mm (1/4")	238,1 mm	1,0 bar (15 psi)	127 mmHg

### Tygon® LMT-55 Laboratory Tubing Vacuum Sizes

Part Number	ID	OD	Wall	Min. Bend Radius	Max. Working Pressure* 22°C (73°F)	Vacuum Rating at 22°C (73°F)
TY4,76LM14,29	4,76 mm (3/16")	14,29 mm (9/16")	4,76 mm (3/16")	6,4 mm	4,1 bar (60 psi)	760 mmHg
TY6,35LM15,88	6,35 mm (1/4")	15,88 mm (5/8")	4,76 mm (3/16")	12,7 mm	3,5 bar (50 psi)	760 mmHg
TY9,53LM22,23	9,53 mm (3/8")	22,23 mm (7/8")	6,35 mm (1/4")	15,9 mm	3,5 bar (50 psi)	760 mmHg
TY12,7LM28,58	12,7 mm (1/2")	28,58 mm (1-1/8")	7,94 mm (5/16")	22,2 mm	3,1 bar (45 psi)	760 mmHg
TY15,88LM34,93	15,88 mm (5/8")	34,93 mm (1-3/8")	9,53 mm (3/8")	25,4 mm	2,8 bar (40 psi)	760 mmHg
TY19,05LM38,1	19,05 mm (3/4")	38,1 mm (1-1/2")	9,53 mm (3/8")	38,1 mm	2,4 bar (35 psi)	760 mmHg
TY25,4LM50,8	25,4 mm (1")	50,8 mm (2")	12,7 mm (1/2")	47,6 mm	2,4 bar (35 psi)	760 mmHg

\*Working pressures are calculated at a 1:5 ratio relative to burst pressure using ASTM D1599

Unless otherwise noted, all test were conducted at room temperature (23°C/73°F). Values shown were determined on 1,9 mm thick extruded strip or 1,9 mm thick molded ASTM plaques or molded ASTM durometer buttons.

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### Typical Physical Properties of Tygon<sup>®</sup> LMT-55 Laboratory Tubing

Property	ASTM Method	Value of Rating
Durometer Hardness	D2240-2	55° Shore A, 15s
Color	-	clear
Tensile Strength	D412-98	11,4 MPa
Ultimate Elongation	D412-98	450,00%
Tear Resistance	D1004-94	22 kN/m
Specific Gravity	D792-00	1,18
Maximum Recommended Operating Temperature	-	74°C (165°F)
Brittleness by Impact Temperature	D746-98	-50°C (-58°F)
Water Absorption, % 24 hrs. @ 23°C	D570-98	0,24
Dielectric Strength	D149-97	23,9 kV/mm
Tensile Modulus at 100% elongation	D412-98	4,5 MPa
Tensile Set	D412-98	107,00%