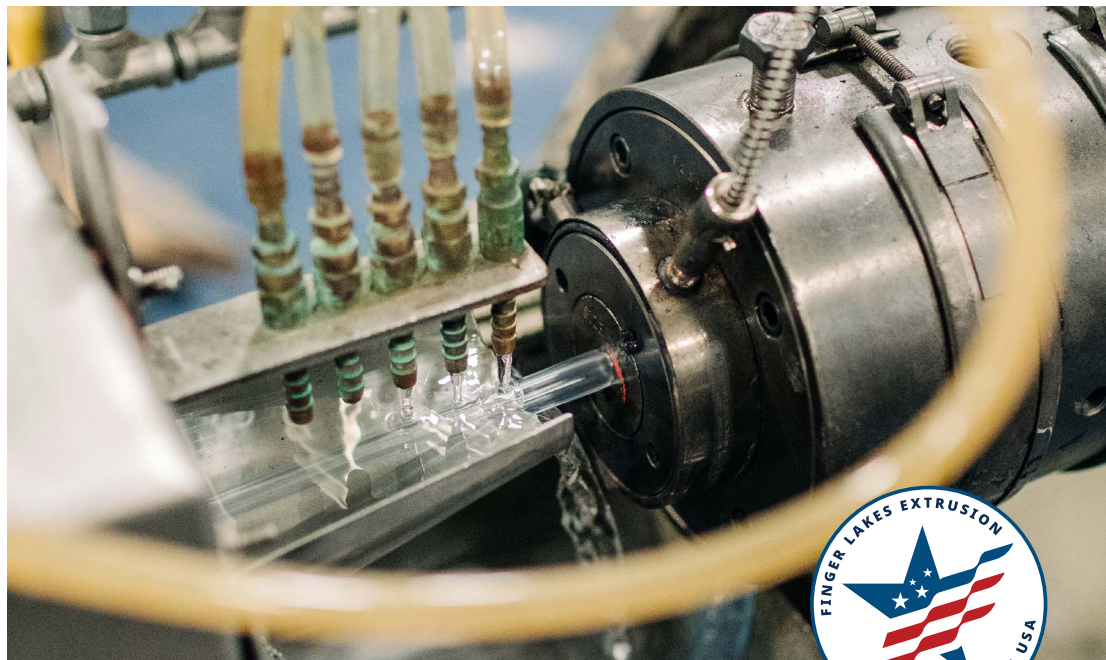


PRODUCT CATALOG

Your *flexible*
plastics provider





ISO 9001:2015

BUREAU VERITAS
Certification



Our diverse capabilities

Our state-of-the-art equipment allows us to customize products and packaging to help you reduce costs and streamline your process or application. Our large warehouse and high-efficiency shipping department enable us to stock virtually all standard catalog items and deliver them whenever and wherever you need them.

In addition to our standard products, we offer all kinds of custom solutions, including:

- Custom formulations
- Custom colors
- Custom lengths
- Custom sizes
- Custom packaging

Call on us whenever you need a custom product to meet your requirements.

About FLEX™ Tubing Products

Quality

Premium-quality FLEX™ tubing is made from the finest virgin resins, with no fillers or extenders. Our precision extrusion process ensures close tolerances and excellent concentricity for reliable, leakproof connections. Adherence to the strict guide lines of our ISO 9001: 2015-registered Quality Management System ensures consistent tubing – lot after lot – with full traceability.

Performance

FLEX™ Tubing Products are available in a variety of materials and sizes to meet virtually any fluid transfer need. And we offer a full range of regulatory compliance for food, beverage, dairy, pharmaceutical, biotechnology and medical applications.

When quality and performance count, insist on FLEX™ Tubing Products for your fluid handling needs. Call us at (585) 905-0632. Or visit our website at flex tubing.com.

Please note that no fitting should be used that stretches the ID of the tube more than 10%.

Finger Lakes Extrusion

Finger Lakes Extrusion was founded in 1998 when William Scott and Kingsley Beck bought the Nalgene Tubing Products business from Nalge Nunc International. Bill and King brought with them extensive experience in tubing extrusion and a dedication to quality products and service. They located Finger Lakes Extrusion in upstate New York in the heart of the scenic Finger Lakes Region.

Since its founding, Finger Lakes Extrusion has maintained an unrivaled level of personalized service and exceptional product quality. We develop a strong relationship with our customers and work hard to accommodate their unique needs. It's a difference you'll notice throughout your buying experience. We answer every phone call personally, so you'll never have to navigate a frustrating automated phone system. And our website allows you to check tubing specifications and submit technical questions and inquiries at your convenience, 24 hours a day.

Our staff has more than 100 years of combined extrusion experience. We've manufactured over a billion feet of tubing, helped select and validate the correct product for thousands of applications, and solved leakage and contamination problems for thousands of customers. Our customers have come to rely on us for fair prices and on-time delivery of tubing that always meets customer expectations.

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Tools to Help You Select the Right FLEX™ Product

Regulatory Conformance:

- Food Grade[^] ● 3A* ● ISO 10993⁺
- USP VI* ● REACH[^] ● UL HB/V-1⁺
- NSF-51+ ● RoHS[^] ● PFAS[^]
- NSF-61-G+ ● Prop 65[^]

+ = Listed * = Tested to standards
^ = Materials meets requirements

Selection Guide for FLEX™ Tubing Products

FLEX™ Tubing Products	ClearFLEX™ 60NP	ClearFLEX™ 70NP	FuelFLEX™ 65	BraidFLEX™ 70N	FLEX™ GP70/70B	Ether-PUR FLEX™ 84	Ester-PUR FLEX™ 85	PolyFLEX™ 50/50B
Resin	PVC	PVC	PVC	PVC, Reinf.	PVC	PUR Ether	PUR Ester	LLDPE
Durometer (Shore)	60 (A)	70 (A)	65 (A)	70 (A)	70 (A)	84 (A)	85 (A)	52 (D)
Specific Gravity	1.19	1.19	1.24	1.19	1.19	1.12	1.20	0.92
Operating Temperature Range (°F)	-25 to 160	-10 to 175	-15 to 165	-10 to 175	-10 to 175	-70 to 175	-70 to 175	-100 to 175
Tensile Strength, psi	2074	2425	2390	2425	2425	5500	5000	4600
Color	Crystal Clear	Crystal Clear	Transparent Yellow	Clear	Crystal Clear/Black	Transparent	Transparent	Natural/Black
Odor	Slight	Slight	Slight	Slight	Slight	None	Slight	Slight
Taste Imparted	None	None	N/A	None	None	N/A	N/A	None
Tear Strength	Good	Good	Good	Very Good	Good	Excellent	Excellent	Very Good
Bend Radius*	4 x O.D.	5 x O.D.	4 x O.D.	6 x O.D.	5 x O.D.	6 x O.D.	6 x O.D.	8 x O.D.
Elongation (%)	410	400	415	400	400	500	500	660
Flame Resistance	Self-Ext.	Self-Ext.	Self-Ext.	Self-Ext.	Self-Ext.	Burns	Burns	Slow Burn
Abrasion Resistance	Very Good	Very Good	Very Good	Very Good	Very Good	Excellent	Excellent	Good
Corrosion Resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Regulatory Conformance								

* This calculation is an approximation and Finger Lakes Extrusion recommends that you test under your own conditions.

For more information regarding the sterilization of FLEX™ brand tubing products, please visit our website flex tubing.com or call (585) 905-0632, email info@flex tubing.com or fax (585) 905-0603.

Tubing Conversion Chart

FLEX™ Tubing Products	ClearFLEX™ 60NP	ClearFLEX™ 70NP	FuelFLEX™ 65	BraidFLEX™ 70N	FLEX™ GP70/70B	Ether-PUR FLEX™ 84	Ester-PUR FLEX™ 85	PolyFLEX™ 50/50B
Nalge Nunc International	Nalgene ¹ 180	—	—	Nalgene ¹ 980	—	—	Nalgene ¹ 280	Nalgene ¹ 489
Saint-Gobain Performance Plastics Corporation	Tygon ² E-3603	Tygon ² B-44-3 B-44-4X	Tygon ² F-4040-A	Tygon ² B-44-4X I.B./NT-80	Tygon R-3400(B) Tygon C219-A Vincon ²	—	Tygo-thane ² Versilon C210-A	—
Thermoplastic Processes	RNT60 ³	—	Excelon ³ GO-1480	Excelon ³ Braided	Excelon ³ RNT	—	—	Excelon LLDPE ³
Freelin Wade	—	—	—	—	—	Fre-Thane ⁴ 85A	—	—
NewAge Industries	—	ClearFlo ⁵ 70	ClearFlo ⁵ Fuel & Oil	Nylo-Brade ⁵	—	Superthane ⁵	Superthane ⁵	Zelite ⁵
Grayline	—	MD70-GS-PVC ⁶	—	—	—	MD25-TPU ⁶	—	—
Thermoplastic Biologic	ClearGreen60 ⁷	ClearGreen ⁷	—	—	—	—	—	LLDPE ⁷
Kuriyama	—	Klearon K080/K010 ⁸	—	K3150 Series RF ⁸	—	Series 2600 ⁸	—	220 Series ⁸
Advanced Technology Products	—	Vinyl-Flex ⁹	—	Dura-Pure ⁹	—	—	—	—

1 Registered trademark of Nalge Nunc International

2 Registered trademarks of Saint-Gobain Performance Plastics

3 Registered trademark of Thermoplastic Processes, Inc.

4 Registered trademark of Freelin Wade

5 Registered trademarks of NewAge Industries, Inc.

6 Registered trademark of Grayline

7 Registered trademark of Thermoplastic Biologic

8 Registered trademark of Kuriyama of America Inc.

9 Registered trademark of Advanced Technology Products

ClearFLEX™ 60NP PVC Tubing Products

Features and Benefits:

- Will not impart taste and odors, non-toxic
- Resistant to alkaline cleaner and sanitizers
- Smooth inner wall resists build-up
- Flexible and easy to install on fittings and fit around corners – minimizes couplings
- Clear for visual inspection and flow control
- May be sterilized by autoclaving, gas or chemical methods (*see detailed information at flex tubing.com*)
- Outstanding flex life

Recommended Applications:

- Peristaltic pumps
- Condenser coolant lines
- Lab and research work
- Vapor transfer
- Media manufacture/transfer
- Toys
- Food/beverage processing

Regulatory Conformance:



Regulatory Conformance:

- Food Grade[^] ● RoHS[^]
 - USP VI* ● Prop 65[^]
 - NSF-51+ ● ISO 10993*
 - NSF-61-G+ ● UL HB/V-1*
 - 3A* ● PFAS[^]
 - REACH[^]
- + = Listed * = Tested to standards
^ = Materials meets requirements

ClearFLEX™ 60NP

Cat. No.	ID Size, in.	OD Size, in.	Wall Size, in.	Oper. Pressure psig @ 73°F	Case Qty., ft.
8860-4170	1/16	1/8	1/32	48	100
8860-4175	1/16	3/16	1/16	60	100
8860-4220	3/32	5/32	1/32	42	100
8860-4245	1/8	1/4	1/16	50	100
8860-4270	5/32	7/32	1/32	30	100
8860-4275	5/32	9/32	1/16	43	100
8860-4290	3/16	1/4	1/32	22	100
8860-4295	3/16	5/16	1/16	36	100
8860-4305	3/16	7/16	1/8	52	100
8860-4335	1/4	3/8	1/16	30	100
8860-4340	1/4	7/16	3/32	40	100
8860-4345	1/4	1/2	1/8	46	100
8860-4390	5/16	7/16	1/16	28	100
8860-4400	5/16	9/16	1/8	42	100
8860-4430	3/8	1/2	1/16	22	100
8860-4435	3/8	9/16	3/32	32	100
8860-4440	3/8	5/8	1/8	40	100
8860-4505	1/2	5/8	1/16	20	100
8860-4510	1/2	11/16	3/32	26	100
8860-4515	1/2	3/4	1/8	30	100
8860-4570	5/8	7/8	1/8	26	100
8860-2605	3/4	1	1/8	22	50
8860-2675	1	1-1/4	1/8	18	50
8860-2685	1	1-3/8	3/16	26	50
8860-2690	1	1-1/2	1/4	34	50
8860-2715	1-1/4	1-5/8	3/16	22	50
8860-2755	1-1/2	2	1/4	24	50
8860-2790	2	2-1/2	1/4	18	50

ClearFLEX™ 60NP Vacuum PVC Tubing

Features and Benefits:

- Extra heavy wall
- Withstands full vacuum (30" Hg) at room temperature and 26" Hg at 140°F
- Excellent resistance to corrosive atmospheres
- Kink-proof

Cat. No.	ID Size, in.	OD Size, in.	Wall Size, in.	Oper. Pressure psig @ 73°F	Case Qty., ft.
8860-2310	3/16	9/16	3/16	62	50
8860-2350	1/4	5/8	3/16	56	50
8860-2460	3/8	7/8	1/4	54	50
8860-2530	1/2	1-1/8	5/16	52	50
8860-2585	5/8	1-3/8	3/8	56	50
8860-2625	3/4	1-1/2	3/8	46	50
8860-2700	1	2	1/2	46	50

ClearFLEX™ 60NP Metric PVC Tubing

Features and Benefits:

- All the advantages of ClearFLEX™ 60NP, but in metric sizes
- Eliminates leaky connections typical of "close-to-size" English-measure tubing

Cat. No.	ID Size, mm	OD Size, mm	Wall Size, mm	Oper. Pressure psig @ 73°F	Case Qty., ft.
8860-0102	1.0	2.0	0.5	46	100
8860-0204	2.0	4.0	1.0	46	100
8860-0406	4.0	6.0	1.0	32	100
8860-0508	5.0	8.0	1.5	34	100
8860-0609	6.0	9.0	1.5	31	100
8860-0610	6.0	10.0	2.0	38	100
8860-0710	7.0	10.0	1.5	28	100
8860-0812	8.0	12.0	2.0	32	100
8860-0913	9.0	13.0	2.0	28	100
8860-1014	10.0	14.0	2.0	26	100
8860-1216	12.0	16.0	2.0	24	100
8860-1823	18.0	23.0	2.5	20	50
8860-2025	20.0	25.0	2.5	18	50

ClearFLEX™ 70NP Premium PVC Tubing

Features and Benefits:

- Will not impart taste and odors, non-toxic
- Resistant to alkaline cleaner and sanitizers
- Smooth inner wall resists build-up
- Flexible and easy to install on fittings and fit around corners – minimizes couplings
- Clear for visual inspection and flow control
- May be sterilized by autoclaving, gas or chemical methods (see detailed information at flex tubing.com)
- Outstanding flex life

Recommended Applications:

- Transfer of foods, beverages, syrups, cooking oils, flavor extracts and preservatives
- Transfer of milk and milk products
- General Laboratory
- Blood Transfer lines and other medical devices

Regulatory Conformance:



Regulatory Conformance:

- Food Grade[^] ● RoHS[^]
- USP VI* ● Prop 65[^]
- NSF-51+ ● ISO 10993*
- NSF-61-G+ ● UL HB/V-1*
- 3A* ● PFAS[^]
- REACH[^]

+ = Listed * = Tested to standards
^ = Materials meets requirements

ClearFLEX™ 70NP PVC Metric Tubing

Cat. No.	ID Size, mm	OD Size, mm	Wall Size, mm	Oper. Pressure psig @ 73°F	Case Qty.
8870-0305	3.0	5.0	1.0	53	100
8870-0306	3.0	6.0	1.5	67	100
8870-0307	3.0	7.0	2.0	77	100
8870-0308	3.0	8.0	2.5	84	100
8870-0407	4.0	7.0	1.5	58	100
8870-0408	4.0	8.0	2.0	68	100
8870-0409	4.0	9.0	2.5	55	100
8870-0608	6.0	8.0	1.0	33	100
8870-0609	6.0	9.0	1.5	45	100
8870-0610	6.0	10.0	2.0	54	100
8870-0709	7.0	9.0	1.0	30	100
8870-0710	7.0	10.0	1.5	40	100
8870-0711	7.0	11.0	2.0	49	100
8870-0911	9.0	11.0	1.0	24	100
8870-0913	9.0	13.0	2.0	42	100
8870-0915	9.0	15.0	3.0	54	100
8870-1013	10.0	13.0	1.5	31	100
8870-1015	10.0	15.0	2.5	45	100
8870-1017	10.0	17.0	3.5	56	100
8870-1520	15.0	20.0	2.5	34	100
8870-1522	15.0	22.0	3.5	43	100
8870-1524	15.0	24.0	4.5	50	100

NOTE: The operating pressures for FLEX™ Tubing Products decrease as the temperature increases. The operating pressure for any given formulation and size at 125°F (52°C) is half that at 73°F (23°C).

ClearFLEX™ 70NP PVC Tubing

Cat. No.	ID Size, in.	OD Size, in.	Wall Size, in.	Oper. Pressure psig @ 73°F	Case Qty., ft.
8870-4170	1/16	1/8	1/32	66	100
8870-4175	1/16	3/16	1/16	80	100
8870-4220	3/32	5/32	1/32	56	100
8870-4240	1/8	3/16	1/32	46	100
8870-4245	1/8	1/4	1/16	68	100
8870-4270	5/32	7/32	1/32	56	100
8870-4275	5/32	9/32	1/16	60	100
8870-4290	3/16	1/4	1/32	34	100
8870-4295	3/16	5/16	1/16	54	100
8870-4305	3/16	7/16	1/8	80	100
8870-4335	1/4	3/8	1/16	46	100
8870-4340	1/4	7/16	3/32	58	100
8870-4345	1/4	1/2	1/8	70	100
8870-4390	5/16	7/16	1/16	40	100
8870-4400	5/16	9/16	1/8	62	100
8870-4405	5/16	5/8	5/32	68	100
8870-4430	3/8	1/2	1/16	34	100
8870-4435	3/8	9/16	3/32	48	100
8870-4440	3/8	5/8	1/8	58	100
8870-4470	7/16	11/16	1/8	48	100
8870-4505	1/2	5/8	1/16	28	100
8870-4510	1/2	11/16	3/32	38	100
8870-4515	1/2	3/4	1/8	44	100
8870-4570	5/8	7/8	1/8	38	100
8870-2590	11/16	15/16	1/8	36	50
8870-2605	3/4	1	1/8	34	50
8870-2640	7/8	1-1/8	1/8	30	50
8870-2675	1	1-1/4	1/8	28	50
8870-2685	1	1-3/8	3/16	38	50
8870-2690	1	1-1/2	1/4	44	50
8870-2710	1-1/4	1-1/2	1/8	24	50
8870-2715	1-1/4	1-5/8	3/16	34	50
8870-2750	1-1/2	1-7/8	3/16	28	50
8870-2755	1-1/2	2	1/4	36	50
8870-2790	2	2-1/2	1/4	28	50



Visit our Website

FLEXTUBING.COM

For the latest product & technical information

FuelFLEX™ 65 PVC Fuel Tubing

and

BraidFLEX™ 70N Braided PVC Tubing

Regulatory Conformance:

- Food Grade[^] ● RoHS[^]
- USP VI* ● Prop 65[^]
- NSF-51+ ● ISO 10993*
- NSF-61-G+ ● UL HB/V-1*
- 3A* ● PFAS[^]
- REACH[^]

+ = Listed * = Tested to standards
[^] = Materials meets requirements

FuelFLEX™ 65 PVC Fuel Tubing

Features and Benefits:

- Flexible and easy to install (65A durometer)
- Resists swelling and hardening
- Easy-to-identify transparent yellow
- Higher resistance to ethanol commonly found in many petroleum products

Recommended Applications:

- For use with petroleum-based products
- Fuel drain lines, vent tubes and overflow tubes
- Transfer of gasoline, heating oils, cutting compounds and coolants
- Lab handling of distillates
- NOT intended for use with foods or beverages

Regulatory Conformance:



Cat. No.	ID Size, in.	OD Size, in.	Wall Size, in.	Oper. Pressure psig @ 73°F	Case Qty., ft.
8365-4190	5/64	9/64	1/32	42	100
8365-4230	3/32	3/16	3/64	54	100
8365-4245	1/8	1/4	1/16	62	100
8365-4295	3/16	5/16	1/16	48	100
8365-4335	1/4	3/8	1/16	40	100
8365-4390	5/16	7/16	1/16	36	100
8365-4430	3/8	1/2	1/16	30	100
8365-4440	3/8	5/8	1/8	44	100
8365-4463	7/16	9/16	1/16	24	100
8365-4465	7/16	5/8	3/32	40	100
8365-4505	1/2	5/8	1/16	22	100
8365-4515	1/2	3/4	1/8	40	100
8365-4570	5/8	7/8	1/8	34	100
8365-2605	3/4	1	1/8	30	50

BraidFLEX™ 70N Braided PVC Tubing

Features and Benefits:

- Will not impart taste and odors, non-toxic
- Resistant to alkaline cleaner and sanitizers
- Embedded braid prevents material entrapment, ensures easy cleaning
- Flexible and easy to install on fittings for leakproof connections and fit around corners - minimizes couplings
- Maximum working pressure clearly printed on tubing
- Clear for visual inspection and flow control
- May be sterilized by autoclaving, gas or chemical methods (see detailed information at flex tubing.com)
- Outstanding flex life

Recommended Applications:

- Transfer lines
- Higher-pressure applications, including lab, food and beverage use
- Pneumatic circuitry
- Cell culture
- Use with insert/barbed fittings
- NOT recommended for vacuum applications

Regulatory Conformance:



Cat. No.	ID Size, in.	OD Size, in.	Wall Size, in.	Oper. Pressure psig @ 73°F	Case Qty., ft.
8470-4300	3/16	3/8	3/32	276	100
8470-7300	3/16	3/8	3/32	276	250
8470-4340	1/4	7/16	3/32	276	100
8470-7340	1/4	7/16	3/32	276	250
8470-4395	5/16	1/2	3/32	276	100
8470-4435	3/8	9/16	3/32	250	100
8470-7435	3/8	9/16	3/32	250	250
8470-4515	1/2	3/4	1/8	230	100
8470-7515	1/2	3/4	1/8	230	250
8470-8515	1/2	3/4	1/8	230	500
8470-4570	5/8	7/8	1/8	230	100
8470-7570	5/8	7/8	1/8	230	250
8470-2605	3/4	1	1/8	176	50
8470-7605	3/4	1	1/8	176	250
8470-5605	3/4	1	1/8	176	300
8470-8605	3/4	1	1/8	176	500
8470-2680	1	1-5/16	5/32	140	50
8470-7680	1	1-5/16	5/32	140	250
8470-5680	1	1-5/16	5/32	140	300
8470-8680	1	1-5/16	5/32	140	500
8470-2715	1-1/4	1-5/8	3/16	100	50
8470-2750	1-1/2	1-7/8	3/16	80	50
8470-2790	2	2-1/2	1/4	70	50

FLEX™ GP70 / GP70B PVC Tubing

FLEX™ GP70 (Clear) Cat. No.	FLEX™ GP70B (Black) Cat. No.	ID Size, in.	OD Size, in.	Wall Size, in.	Oper. Pressure psig @ 73°F	Case Qty., ft.
8200-4170	8242-4170	1/16	1/8	1/32	66	100
8200-4220	8242-4220	3/32	5/32	1/32	56	100
8200-4235	8242-4235	3/32	7/32	1/16	64	100
8200-4240		1/8	3/16	1/32	46	100
8200-4245	8242-4245	1/8	1/4	1/16	68	100
8200-4275	8242-4275	5/32	9/32	1/16	60	100
8200-4290	8242-4290	3/16	1/4	1/32	34	100
8200-4295	8242-4295	3/16	5/16	1/16	54	100
8200-4300	8242-4300	3/16	3/8	3/32	70	100
8200-4305		3/16	7/16	1/8	80	100
8200-4330		1/4	5/16	1/32	28	100
8200-4335	8242-4335	1/4	3/8	1/16	46	100
8200-4340	8242-4340	1/4	7/16	3/32	58	100
8200-4345	8242-4345	1/4	1/2	1/8	70	100
8200-4390	8242-4390	5/16	7/16	1/16	40	100
8200-4395		5/16	1/2	3/32	52	100
8200-4400		5/16	9/16	1/8	62	100
8200-4430	8242-4430	3/8	1/2	1/16	34	100
8200-4435		3/8	9/16	3/32	48	100
8200-4440	8242-4440	3/8	5/8	1/8	58	100
8200-4463		7/16	9/16	1/16	30	100
8200-4505	8242-4505	1/2	5/8	1/16	28	100
8200-4510		1/2	11/16	3/32	38	100
8200-4515	8242-4515	1/2	3/4	1/8	44	100
8200-4540		9/16	3/4	3/32	36	100
8200-4560		5/8	3/4	1/16	24	100
8200-4565		5/8	13/16	3/32	34	100
8200-4570	8242-4570	5/8	7/8	1/8	38	100
8200-2600		3/4	7/8	1/16	20	50
8200-2605	8242-2605	3/4	1	1/8	34	50
8200-4605		3/4	1	1/8	34	100
8200-2615		3/4	1-1/8	3/16	48	50
8200-2640		7/8	1-1/8	1/8	30	50
8200-2675	8242-2675	1	1-1/4	1/8	28	50
8200-4675		1	1-1/4	1/8	28	100
8200-2685		1	1-3/8	3/16	38	50
8200-2690		1	1-1/2	1/4	44	50
8200-2710		1-1/4	1-1/2	1/8	24	50
8200-2715		1-1/4	1-5/8	3/16	34	50
8200-2720		1-1/4	1-3/4	1/4	40	50
8200-2745		1-1/2	1-3/4	1/8	18	50
8200-2750		1-1/2	1-7/8	3/16	28	50
8200-2755	8242-2755	1-1/2	2	1/4	36	50
8200-2790	8242-2790	2	2-1/2	1/4	28	50
8200-2805		2-1/4	2-3/4	1/4	24	50
8200-2815	8242-2815	2-1/2	3	1/4	22	50
8200-0840	8242-0840	3	3-1/2	1/4	20	10

Regulatory Conformance:

- Food Grade[^] ● RoHS[^]
- USP VI* ● Prop 65[^]
- NSF-51+ ● ISO 10993*
- NSF-61-G+ ● UL HB/V-1*
- 3A* ● PFAS[^]
- REACH[^]

+ = Listed * = Tested to standards
[^] = Materials meets requirements

FLEX™ GP70 PVC Tubing – Clear

Features and Benefits:

- Clear and flexible
- Resists aging
- Resistant to a broad range of chemicals
- Excellent wearability
- Smooth inner wall; excellent flow characteristics
- Easy to connect
- Cost-effective alternative to ClearFLEX™ for applications that don't require regulatory compliances
- Light weight, yet tough and abrasion-resistant

Recommended Applications:

- General-purpose chemical transfer and other applications not subject to regulatory requirements
- Suitable for use with foods and beverages
- Handles broad range of chemicals, gases and liquids

Regulatory Conformance:



FLEX™ GP70B PVC Tubing – Black

Features and Benefits:

- More resistant to UV exposure than clear tubing
- Does not promote algae growth

Recommended Applications:

- Outdoor applications
- Light-sensitive media
- Color coding of processing lines
- Secondary containment of other lines

Regulatory Conformance:



NOTE: The operating pressures for FLEX™ Tubing Products decrease as the temperature increases. The operating pressure for any given formulation and size at 125°F (52°C) is half that at 73°F (23°C).

Ether-PUR FLEX™ 84 Tubing – Ether-Based

and

Ester-PUR FLEX™ 85 Tubing – Ester-Based

Regulatory Conformance:

- Food Grade[^] ● RoHS[^]
 - USP VI* ● Prop 65[^]
 - NSF-51+ ● ISO 10993*
 - NSF-61-G+ ● UL HB/V-1*
 - 3A* ● PFAS[^]
 - REACH[^]
- + = Listed * = Tested to standards
[^] = Materials meets requirements

Ether-PUR FLEX™ 84 Tubing – Ether-Based

Features and Benefits:

- Clear and flexible
- Tough; resists tearing and abrasion
- Superior resistance to hydrolytic degradation compared to Ester-PUR FLEX™ 85
- Flexible at low temperatures
- High impact resistance
- Pure polyurethane; contains no plasticizers and low levels of extractables
- Resistant to atmospheric ozone

Recommended Applications:

- High-purity applications
- Instrumentation
- Distilled, deionized, demineralized or reverse osmosis-treated water
- Handling petroleum-based products
- Recommended for use with aqueous solutions

Regulatory Conformance:



Cat. No.	ID Size, in.	OD Size, in.	Wall Size, in.	Oper. Pressure psig @ 73°F	Case Qty., ft.
8684-4170	1/16	1/8	1/32	90	100
8684-4240	1/8	3/16	1/32	58	100
8684-4245	1/8	1/4	1/16	92	100
8684-4290	3/16	1/4	1/32	48	100
8684-4295	3/16	5/16	1/16	72	100
8684-4335	1/4	3/8	1/16	76	100
8684-4340	1/4	7/16	3/32	80	100
8684-4345	1/4	1/2	1/8	92	100
8684-4390	5/16	7/16	1/16	56	100
8684-4400	5/16	9/16	1/8	84	100
8684-4430	3/8	1/2	1/16	48	100
8684-4440	3/8	5/8	1/8	76	100
8684-4465	7/16	5/8	3/32	56	100
8684-4505	1/2	5/8	1/16	34	100
8684-4515	1/2	3/4	1/8	64	100
8684-4565	5/8	13/16	3/32	44	100
8684-4570	5/8	7/8	1/8	50	100
8684-2605	3/4	1	1/8	48	50
8684-2640	7/8	1-1/8	1/8	38	50
8684-2675	1	1-1/4	1/8	34	50

Ester-PUR FLEX™ 85 Tubing – Ester-Based

Features and Benefits:

- Excellent resistance to abrasion and remains flexible at low temperatures
- Resistant to atmospheric ozone, aliphatic hydrocarbons and petroleum products
- Pure polyurethane; contains no plasticizers and low levels of extractables

Recommended Applications:

- High-purity applications
- Fuel lines
- Instrumentation
- Cable jacketing
- Gas sampling lines
- NOT recommended for use with aqueous solutions

Regulatory Conformance:



Cat. No.	ID Size, in.	OD Size, in.	Wall Size, in.	Oper. Pressure psig @ 73°F	Case Qty., ft.
8685-4170	1/16	1/8	1/32	106	100
8685-4240	1/8	3/16	1/32	70	100
8685-4245	1/8	1/4	1/16	110	100
8685-4290	3/16	1/4	1/32	56	100
8685-4295	3/16	5/16	1/16	86	100
8685-4330	1/4	5/16	1/32	50	100
8685-4335	1/4	3/8	1/16	76	100
8685-4340	1/4	7/16	3/32	96	100
8685-4345	1/4	1/2	1/8	110	100
8685-4390	5/16	7/16	1/16	66	100
8685-4400	5/16	9/16	1/8	100	100
8685-4430	3/8	1/2	1/16	56	100
8685-4435	3/8	9/16	3/32	76	100
8685-4440	3/8	5/8	1/8	90	100
8685-4465	7/16	5/8	3/32	66	100
8685-4505	1/2	5/8	1/16	40	100
8685-4515	1/2	3/4	1/8	76	100
8685-4565	5/8	13/16	3/32	52	100
8685-4570	5/8	7/8	1/8	60	100
8685-2605	3/4	1	1/8	56	50
8685-2640	7/8	1-1/8	1/8	46	50
8685-2675	1	1-1/4	1/8	40	50

PolyFLEX™ 50 LLDPE* Tubing – Natural

and

PolyFLEX™ 50B LLDPE Tubing – Black

Regulatory Conformance:

- Food Grade[^] ● RoHS[^]
- USP VI* ● Prop 65[^]
- NSF-51+ ● ISO 10993*
- NSF-61-G+ ● UL HB/V-1*
- 3A* ● PFAS[^]
- REACH[^]

+ = Listed * = Tested to standards
^ = Materials meets requirements

*Linear Low Density Polyethylene

PolyFLEX™ 50 LLDPE Tubing – Natural

Features and Benefits:

- Semi-rigid and translucent
- Low in extractables
- Offers a wide range of working temperatures
- Resistant to a broad range of chemicals
- Better stress crack resistance than low density polyethylene

Recommended Applications:

- Transfer of foods and beverages
- Instrumentation
- Chemical lines
- Air Lines

Regulatory Conformance:



Cat. No.	ID Size, in.	OD Size, in.	Wall Size, in.	Oper. Pressure psig @ 73°F	Case Qty., ft.
8750-4245	1/8	1/4	1/16	200	100
8750-4281	0.170	1/4	0.040	120	100
8750-8281	0.170	1/4	0.040	120	500
8750-4335	1/4	3/8	1/16	120	100
8750-8335	1/4	3/8	1/16	120	500
8750-4430	3/8	1/2	1/16	86	100
8750-8430	3/8	1/2	1/16	86	500
8750-4505	1/2	5/8	1/16	66	100
8750-8505	1/2	5/8	1/16	66	500
8750-2605	3/4	1	1/8	80	50

PolyFLEX™ 50B LLDPE Tubing – Black

Features and Benefits:

- Same formulation as PolyFLEX™ 50
- More resistant to UV radiation than natural tubing
- Does not promote algae growth

Recommended Applications:

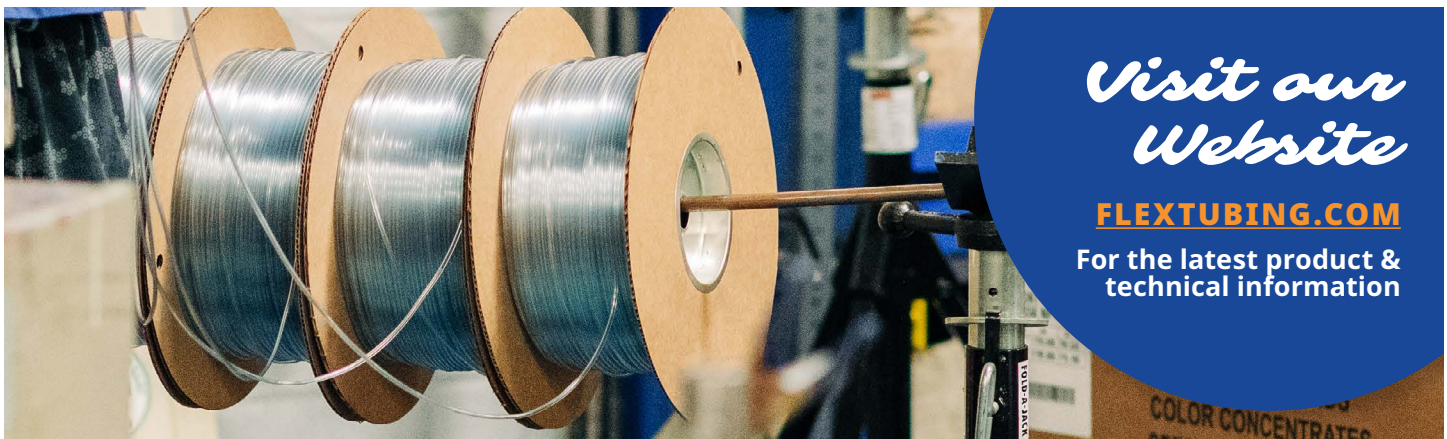
- Outdoor applications
- Light-sensitive media
- Color coding of processing lines

Regulatory Conformance:



Cat. No.	ID Size, in.	OD Size, in.	Wall Size, in.	Oper. Pressure psig @ 73°F	Case Qty., ft.
8752-4245	1/8	1/4	1/16	200	100
8752-4281	0.170	1/4	0.040	120	100
8752-4335	1/4	3/8	1/16	120	100
8752-8335	1/4	3/8	1/16	120	500
8752-4430	3/8	1/2	1/16	86	100
8752-8430	3/8	1/2	1/16	86	500
8752-4505	1/2	5/8	1/16	66	100

NOTE: The operating pressures for FLEX™ Tubing Products decrease as the temperature increases. The operating pressure for any given formulation and size at 125°F (52°C) is half that at 73°F (23°C).



Visit our Website

FLEXTUBING.COM

For the latest product & technical information

Chemical Resistance Chart

First letter of each pair applies to conditions at 73°F (23°C);
second letter to conditions at 125°F (52°C).

Tubing Material	PVC	PVC Fuel	PUR Ester	PUR Ether	LLDPE
Chemical	ClearFLEX™ 60 NP/60NP/ V60NP/70NP GP70/GP70B BraidFLEX™ 70N	Fuel FLEX™ 65	Ester-PUR FLEX™ 85	Ether-PUR FLEX™ 84	Poly FLEX™ 50/50B
Acetaldehyde	NN	NN	—	—	GN
Acetamide, Sat.	NN	NN	NN	NN	EE
Acetic Acid, 5%	EG	EG	EG	GF	EE
Acetic Acid, 50%	FN	FN	FN	NN	EE
Acetic Anhydride	NN	NN	NN	NN	NN
Acetone	NN	NN	NN	NN	GG
Acetonitrile	NN	NN	NN	NN	EE
Acrylonitrile	NN	NN	—	—	EE
Adipic Acid	EF	EF	GF	FF	EG
Alanine	NN	NN	NN	—	EE
Allyl Alcohol	GN	GN	F-	F-	EE
Aluminum Hydroxide	EG	EG	G-	G-	EG
Aluminum Salts	EG	EG	EG	EG	EE
Amino Acids	EF	EF	—	—	EE
Ammonia	GF	GF	—	—	EE
Ammonium Acetate, Sat.	EG	EG	NN	NN	EE
Ammonium Glycolate	GF	GF	—	—	EG
Ammonium Hydroxide, 5%	EG	EG	EG	EG	EE
Ammonium Hydroxide, 30%	GF	GF	EF	EF	EG
Ammonium Oxalate	GF	GF	—	—	EG
Ammonium Salts	EG	EG	GF	EG	EE
n-Amyl Acetate	NN	NN	NN	NN	GF
Amyl Chloride	NN	NN	—	—	NN
Aniline	NN	NN	NN	NN	EG
Aqua Regia	NN	NN	NN	NN	NN
Benzaldehyde	NN	NN	NN	NN	EG
Benzene	NN	NN	NN	NN	FN
Benzoic Acid, Sat.	EG	EG	NN	NN	EE
Benzyl Acetate	NN	NN	NN	NN	EG
Benzyl Alcohol	FN	FN	NN	NN	NN
Bromine	NN	NN	NN	NN	NN
Bromobenzene	NN	NN	NN	NN	NN
Bromoform	NN	NN	NN	NN	NN
Butadiene	NN	NN	—	—	NN
Butyl Chloride	NN	NN	NN	NN	NN
n-Butyl Acetate	NN	NN	NN	NN	GF
n-Butyl Alcohol	FN	FN	FF	NN	EE
sec-Butyl Alcohol	FN	FN	FF	NN	EG
tert-Butyl Alcohol	FN	FN	FF	NN	EG
Butyric Acid	NN	NN	GF	FF	NN
Calcium Hydroxide, Conc.	EG	EG	EG	EG	EE
Calcium Hypochlorite, Sat.	FN	FN	NN	GF	EE
Carbazole	NN	NN	NN	NN	EE
Carbon Disulfide	NN	NN	FF	NN	NN
Carbon Tetrachloride	NN	NN	NN	NN	FN
Cedarwood Oil	NN	FN	GF	GF	NN
Cellosolve Acetate	NN	NN	NN	NN	EG
Chlorobenzene	NN	NN	NN	NN	NN
Chlorine, 10% in Air	EG	EG	NN	NN	GN
Chlorine, 10% (Moist)	FN	FN	NN	NN	GN
Chloroacetic Acid	NN	NN	NN	NN	EE
p-Chloroacetophenone	NN	NN	NN	NN	EE
Chloroform	NN	NN	NN	NN	FN

Tubing Material	PVC	PVC Fuel	PUR Ester	PUR Ether	LLDPE
Chemical	ClearFLEX™ 60 NP/60NP/ V60NP/70NP GP70/GP70B BraidFLEX™ 70N	Fuel FLEX™ 65	Ester-PUR FLEX™ 85	Ether-PUR FLEX™ 84	Poly FLEX™ 50/50B
Chromic Acid, 10%	EN	EN	NN	NN	EE
Chromic Acid, 50%	GN	GN	NN	NN	EE
Cinnamon Oil	NN	NN	GF	GF	NN
Citric Acid, 10%	GF	GF	G-	G-	EE
Cresol	NN	NN	NN	NN	NN
Cyclohexane	NN	NN	E-	G-	FN
Cyclohexanone	NN	NN	NN	NN	NN
Cyclopentane	NN	NN	E-	G-	NN
Decalin	NN	NN	NN	NN	GF
n-Decane	FN	GN	E-	E-	FN
Diacetone Alcohol	NN	NN	—	—	FN
o-Dichlorobenzene	NN	NN	NN	NN	FN
p-Dichlorobenzene	NN	NN	NN	NN	FN
1,2-Dichloroethane	NN	NN	NN	NN	NN
2,4-Dichlorophenol	NN	NN	NN	NN	NN
Diethyl Benzene	NN	NN	NN	NN	NN
Diethyl Ether	NN	NN	G-	F-	NN
Diethyl Ketone	NN	NN	NN	NN	GF
Diethyl Malonate	NN	NN	FN	NN	EE
Diethylamine	NN	NN	NN	NN	NN
Diethylene Glycol	FN	FN	GF	FF	EE
Diethylene Glycol Ethyl Ether	NN	NN	FN	FN	EE
Dimethyl Acetamide	NN	NN	NN	NN	FN
Dimethyl Formamide	NN	NN	NN	NN	EE
Dimethylsulfoxide	NN	NN	—	—	EE
1,4-Dioxane	FN	FN	NN	NN	GF
Dipropylene Glycol	FN	FN	GF	FF	EE
Ether	NN	NN	FN	NN	NN
Ethyl Acetate	NN	NN	NN	NN	EE
Ethyl Alcohol, 40%	GF	GF	FN	FN	EG
Ethyl Alcohol (Absolute)	FN	FN	NN	NN	EG
Ethyl Benzene	NN	NN	NN	NN	FN
Ethyl Benzoate	NN	NN	NN	NN	FF
Ethyl Butyrate	NN	NN	—	—	GN
Ethyl Chloride, Liquid	NN	NN	FN	FN	FN
Ethyl Cyanoacetate	NN	NN	—	—	EE
Ethyl Lactate	NN	NN	—	—	EE
Ethylene Chloride	NN	NN	NN	FN	GN
Ethylene Glycol	FN	GN	GF	GF	EE
Ethylene Glycol Methyl Ether	FN	FN	FN	FN	EE
Ethylene Oxide	GN	GN	NN	NN	FF
Fatty Acids	EG	EG	—	—	EG
Fluorides	GF	GF	—	—	EE
Flourine	FN	FN	NN	NN	FN
Formaldehyde, 10%	GN	GN	—	—	EE
Formaldehyde, 40%	FN	FN	NN	NN	EG
Formic Acid, 3%	EG	GG	GF	NN	EG
Formic Acid, 50%	GF	GF	FN	NN	EG
Formic Acid, 98 - 100%	NN	NN	NN	NN	EG
Freon TF	NN	NN	E-	E-	EG
Fuel Oil	NN	GN	GF	FF	FN
Gasoline	NN	GN	GN	FN	FN
Glacial Acetic Acid	NN	NN	NN	NN	EG

Tubing Material	PVC	PVC Fuel	PUR Ester	PUR Ether	LLDPE
Chemical	ClearFLEX™ 60 NP/IM60NP/ V60NP/70NP GP70/GP70B BraidFLEX™ 70N	Fuel FLEX™ 65	Ester-PUR FLEX™ 85	Ether-PUR FLEX™ 84	Poly FLEX™ 50/50B
Glutaraldehyde (Disinfectant)	FN	FN	—	—	EG
Glycerine	GF	EF	GF	GF	EE
n-Heptane	NN	FN	EG	GF	FN
Hexane	NN	FN	EG	GF	NN
Hydrazine	NN	NN	NN	NN	NN
Hydrochloric Acid, 1-5%	EF	EF	GF	GF	EE
Hydrochloric Acid, 20%	GF	GF	NN	NN	EE
Hydrochloric Acid, 35%	GN	GN	NN	NN	EE
Hydrofluoric Acid, 4%	GN	GN	GF	GF	EG
Hydrofluoric Acid, 48%	FN	FN	NN	NN	EE
Hydrogen Peroxide, 3%	EG	EG	EG	EG	EE
Hydrogen Peroxide, 30%	GN	GN	GG	GG	EG
Hydrogen Peroxide, 90%	NN	NN	—	—	EG
Iodine Crystals	NN	NN	NN	NN	NN
Isobutyl Alcohol	GN	GN	FF	FF	EE
Isopropyl Acetate	NN	NN	NN	NN	GF
Isopropyl Alcohol	GN	GN	GF	GF	EE
Isopropyl Benzene	NN	NN	NN	NN	FN
Isopropyl Ether	NN	NN	GF	FN	NN
Jet Fuel	NN	FN	—	—	FN
Kerosene	NN	GN	GF	FF	FN
Lacquer Thinner	NN	NN	FN	FN	NN
Lactic Acid, 3%	EG	EG	EG	EG	EG
Lactic Acid, 85%	GF	GF	GF	FF	EE
Mercury*	GN	GN	EG	EG	EE
2-Methoxyethanol	GN	GN	G-	G-	EG
Methoxyethyl Oleate	NN	NN	GF	FF	EG
Methyl Acetate	NN	NN	NN	NN	FN
Methyl Alcohol	FN	FN	FN	FN	EE
Methyl Ethyl Ketone	NN	NN	NN	NN	EG
Methyl Isobutyl Ketone	NN	NN	NN	NN	GF
Methyl Propyl Ketone	NN	NN	NN	NN	GF
Methyl-t-butyl Ether	NN	NN	—	—	NN
Methylene Chloride	NN	NN	NN	NN	FN
Mineral Oil (Petroleum)	NN	GN	EG	GF	GN
Mineral Spirits	NN	GN	GN	FN	FN
Nitric Acid, 1-10%	EF	EF	NN	FN	EE
Nitric Acid, 50%	GN	GN	NN	NN	GN
Nitric Acid, 70%	NN	NN	NN	NN	FN
Nitrobenzene	NN	NN	NN	NN	NN
Nitromethane	NN	NN	NN	NN	NN
n-Octane	NN	GN	EG	GF	EE
Orange Oil	NN	FN	GF	GF	FN
Ozone	GF	GF	G-	G-	EG
Perchloric Acid	NN	NN	NN	NN	GN
Perchloroethylene	NN	NN	NN	NN	NN
Phenol, Crystals	FN	FN	NN	NN	GN
Phenol, Liquid	FN	FN	NN	NN	NN
Phosphoric Acid, 1-5%	EG	EG	NN	NN	EE
Phosphoric Acid, 85%	GF	GF	NN	NN	EE
Picric Acid	NN	NN	FN	FN	NN
Pine Oil	NN	FN	FN	FN	GN
Potassium Hydroxide, 1%	EG	EG	E-	E-	EE
Potassium Hydroxide, conc.	GF	GF	G-	G-	EE
Propane Gas	FN	GN	GF	FF	NN
Propionic Acid	FN	FN	GF	FF	FN
Propylene Glycol	GN	GN	G-	G-	EE
Propylene Oxide	FN	FN	—	—	EG

Chemical Resistance Classifications:

- E** 30 days of constant exposure cause no damage. Plastic may even tolerate for years.
- G** Little or no damage after 30 days of constant exposure to the reagent.
- F** Some effect after 7 days of constant exposure. Depending on the plastic, the effect may be crazing, cracking, loss of strength or discoloration. Solvents may cause softening, swelling and/or permeation losses.
- N** Not recommended for continuous use. Immediate damage may occur. Depending on the plastic, the effect will be a more severe crazing, cracking, loss of strength, discoloration, deformation, dissolution or permeation loss.
- Not tested. Finger Lakes Extrusion recommends that you test under your own conditions.

Tubing Material	PVC	PVC Fuel	PUR Ester	PUR Ether	LLDPE
Chemical	ClearFLEX™ 60 NP/IM60NP/ V60NP/70NP GP70/GP70B BraidFLEX™ 70N	Fuel FLEX™ 65	Ester-PUR FLEX™ 85	Ether-PUR FLEX™ 84	Poly FLEX™ 50/50B
Resorcinol, Sat.	NN	NN	NN	NN	EE
Resorcinol, 5%	NN	NN	NN	NN	EE
Salicylaldehyde	NN	NN	—	—	EG
Salicylic Acid, Powder	GF	GF	—	—	EE
Salicylic Acid, Sat.	GF	GF	—	—	EE
Salt Solutions, Metallic	EG	EG	G-	G-	EE
Silicone Oil	GF	GF	E-	G-	EG
Silver Acetate	GN	GN	—	—	EE
Silver Nitrate	EG	EG	E-	E-	EG
Skydrol LD4	NN	NN	NN	NN	GF
Sodium Acetate, Sat.	GN	GN	NN	NN	EE
Sodium Hydroxide, 1%	EG	EG	E-	E-	EE
Sodium Hydroxide, 50%-Sat.	GN	GN	G-	G-	GG
Sodium Hypochlorite, 15%	EG	EG	EG	NN	EE
Stearic Acid, Crystals	EG	EG	EF	EF	EE
Sulfuric Acid, 1-6%	EG	EG	GN	EF	EE
Sulfuric Acid, 20%	EF	EF	FN	EF	EE
Sulfuric Acid, 60%	FN	FN	NN	NN	EG
Sulfuric Acid, 98%	NN	NN	NN	NN	GG
Sulfur Dioxide, Liq., 46 psig	NN	NN	—	—	NN
Sulfur Dioxide, Wet or Dry	GN	GN	—	—	EE
Sulfur Salts	GN	GN	—	—	FN
Tartaric Acid	EG	FG	G-	G-	EE
Tetrahydrofuran	NN	NN	NN	NN	FN
Thionyl Chloride	NN	NN	—	—	NN
Toluene	NN	NN	FN	NN	FN
Tributyl Citrate	NN	NN	NN	NN	GF
Trichloroacetic Acid	FN	FN	NN	NN	FN
1,2,4-Trichlorobenzene	NN	NN	NN	NN	NN
Trichloroethane	NN	NN	NN	NN	NN
Trichloroethylene	NN	NN	NN	NN	NN
Triethylene Glycol	FN	FN	GF	FN	EG
2,2,4-Trimethylpentane	NN	FN	GF	FN	FN
Tripropylene Glycol	FN	FN	GF	FN	EE
Tris Buffer Solution	FN	FN	—	—	EG
Turpentine	FN	FN	GF	GF	FN
Undecyl Alcohol	GF	GF	EG	GF	EF
Urea	GN	GN	F-	F-	EE
Vinylidene Chloride	NN	NN	NN	NN	NN
Xylene	NN	NN	FN	NN	GN
Zinc Stearate	GF	GF	E-	G-	EE

*Mercury will permeate through all resins listed but only chemically attack those resins not listed as EE.

Chemical Usage Guide

Material	ClearFLEX™ 60NP	ClearFLEX™ 70NP	FuelFLEX™ 65	BraidFLEX™ 70N	FLEX™ GP70/70B	Ether-PUR FLEX™ 84	Ester-PUR FLEX™ 85	PolyFLEX™ 50/50B
Acids - Weak	E	E	E	E	E	F	F	E
Acids - Strong	F	F	F	F	F	N	N	E
Alcohols - Aliphatic	G	G	E	G	G	F	F	E
Aldehydes	N	N	N	N	N	F	F	G
Bases - Weak	E	E	E	E	E	G	G	E
Bases - Strong	G	G	G	G	G	F	F	G
Esters	N	N	N	N	N	N	N	G
Hydrocarbons - Aliphatic	F	F	G	F	F	E	E	F
Hydrocarbons - Aromatic	N	N	N	N	N	N	N	F
Hydrocarbons - Halogenated	N	N	N	N	N	N	N	N
Ketones	N	N	N	N	N	N	N	G
Oxidizing Agents - Strong	F	F	F	F	F	N	N	F

NOTE: The chemical resistance information in this chart is a general guide only. Because many factors can affect chemical resistance, you should test under your own conditions. If any doubt exists about specific applications, contact Finger Lakes Extrusion.

Tolerances

	ClearFLEX™ 60NP	ClearFLEX™ 70NP	FuelFLEX™ 65	BraidFLEX™ 70N	FLEX™ GP70/70B	Ether-PUR FLEX™ 84	Ester-PUR FLEX™ 85	PolyFLEX™ 50/50B
Inside Dia., +/- in.								
1/16 and under 1/8	0.003	0.003	0.005	0.007	0.007	0.005	0.005	0.007
1/8 and under 5/16	0.005	0.005	0.008	0.010	0.010	0.009	0.009	0.007
5/16 and under 1/2	0.008	0.008	0.010	0.015	0.015	0.012	0.012	0.007
1/2 and under 3/4	0.010	0.010	0.015	0.020	0.020	0.018	0.018	0.010
3/4 and under 1-1/8	0.015	0.015	0.020	0.030	0.030	0.025	0.025	0.015
1-1/8 and under 1-3/4	0.020	0.020	—	0.040	0.040	—	—	—
1-3/4 and under 2-1/2	0.031	0.031	—	0.055	0.055	—	—	—
2-1/2 and under 3	—	—	—	—	0.065	—	—	—
3 and under 4	—	—	—	—	0.080	—	—	—
Wall Thickness, +/- in.								
0 to under 1/16	0.003	0.003	0.004	—	0.005	0.005	0.005	—
1/16 to under 1/8	0.003	0.003	0.005	—	0.006	0.006	0.006	—
1/8 to under 1/4	0.005	0.005	0.010	—	0.015	0.009	0.009	—
1/4 to under 3/8	0.010	0.010	0.015	—	0.025	—	—	—
3/8 to 1/2	0.015	0.015	0.025	—	0.040	—	—	—

