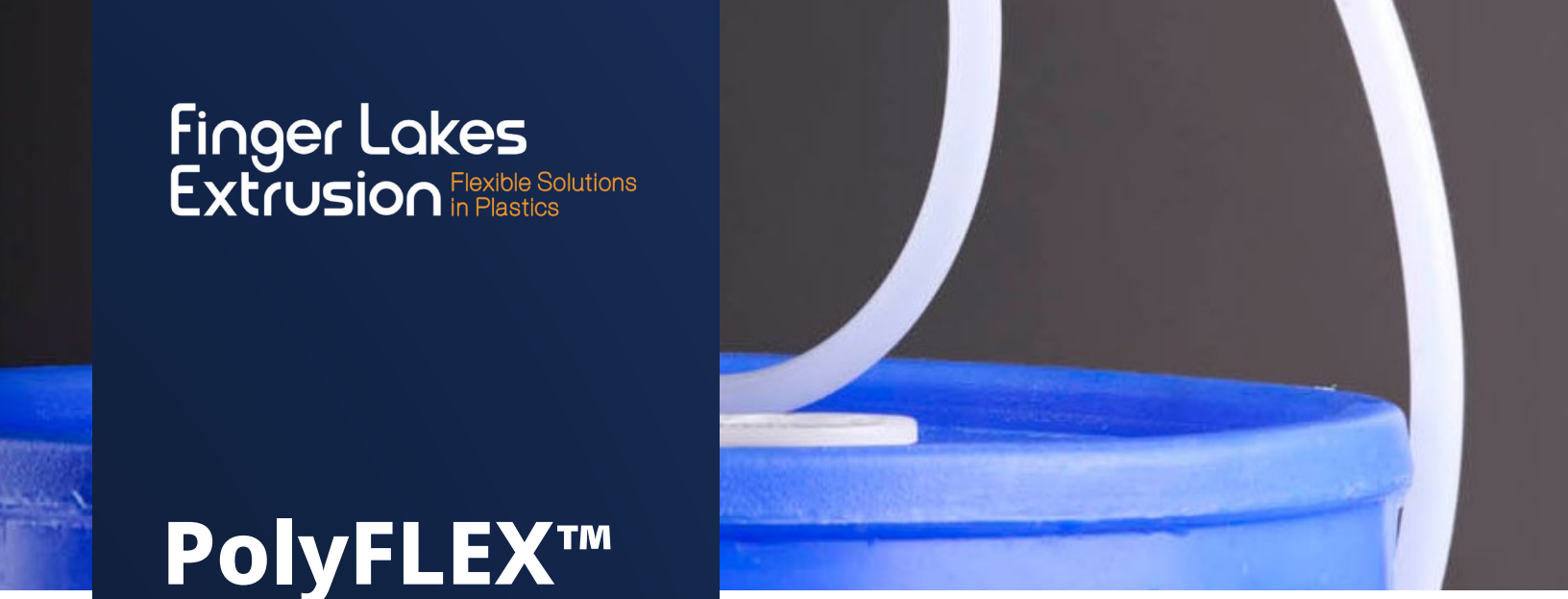
Finger Lakes Extrusion
Flexible Solutions in Plastics



PolyFLEX™ 50/50B

The PolyFLEX™ 50 / 50B product line is made in the U.S. from a semi-rigid linear low density polyethylene giving it a natural milky white color. This product line contains no plasticizers and very low levels of extractables. It meets the requirements of the FDA and is the most chemically resistant product offered by Finger Lakes Extrusion. Although PolyFLEX™ 50 is milky white, users are still able to determine if there is flow inside of the tubing. PolyFLEX™ 50B is opaque black and inhibits algae growth and UV degradation making it a good choice for outdoor use. This material gives users excellent environmental stress crack resistance over low density polyethylene.

PolyFLEX™ 50 Tubing - Natural

- 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 over low density polyethylene

PolyFLEX™ 50 Tubing - Black

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

Typical Applications

PolyFLEX™ 50 - Natural

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

PolyFLEX™ 50 - Black

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

Specifications

All PolyFLEX™ 50 / 50B tubing products offer the following:

- This product meets the requirements of FDA under paragraph 177.1520
- Meets RoHS and REACH standards, also does not contain any substances listed on Proposition 65

Chemical Resistance

Ratings for ideal conditions 73°F / 25°C					
Strong Mineral Acids	Organic Acids	Weak Acids	Bases Weak	Bases Strong	Solvents
Excellent	Good	Excellent	Excellent	Good	Good

2437 Route 21, Canandaigua, NY 14424
(585) 905-0632 · sales@flextubing.com · flextubing.com

Physical Properties

	PolyFLEX™ 50		PolyFLEX™ 50B	
Properties	**ASTM Method**	**Value Rating**	**ASTM Method**	**Value Rating**
Hardness; Shore D (+/- 5)	D2240	52	D2240	52
Vacuum		Not Recommended		Not Recommended
Operating temperature range		-100° - 175° F -73° - 79°C		-100° - 175° F -73° - 79°C
Maximum Working Pressure		73°F / 120PSI 25°F / 60PSI		73°F / 120PSI 125°F / 60PSI
Testing Size		1/4"ID x 1/16"W		1/4"ID x 1/16"W
Color		Natural Translucent		Black
Odor		Slight		Slight
Taste		None		None
Specific Gravity; g/cm³	D792	.92	D792	.92
Tensile Strength; psi	D638	4600	D638	4600
Ultimate Elongation; %	D638	660	D638	660
Flame Resistance	D568	Slow Burn	D568	Slow Burn

PolyFLEX™ 50 Size Chart

Catalog Number	Id (mm)	Od (mm)	Wall	Operating Pressure PSIG °F	Case Qty. Ft.
8750-4245	1/8	1/4	1/16	200	100
8750-4281	.170	1/4	.040	120	100
8750-8281	.170	1/4	.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 Size Chart

Catalog Number	Id (in)	Od (in)	Wall	Operating Pressure PSIG °F	Case Qty. Ft.
8752-4245	1/8	1/4	1/16	200	100
8752-4281	.170	1/4	.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

* The above is accurate to the best of the Company's knowledge, however, these are typical values and should not be used as a certification. All materials should be tested for suitability in their intended use.

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