



# Dura PolyFLEX™ 52

## Product Features

The Dura PolyFLEX™52 tubing line is made in the U.S. from a semi-rigid linear low density polyethylene (LLDPE) 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 one of the most chemically resistant products offered by Finger Lakes Extrusion. Although Dura PolyFLEX™52 tubing is milky white, users are still able to determine if there is flow inside of the tubing. This material gives users excellent environmental stress crack resistance over PolyFLEX™50.

### Dura PolyFLEX™ 52 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 than low density polyethylene

## Typical Applications

### Dura PolyFLEX™ 52 - Natural

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

## Specifications

All Dura PolyFLEX™ 52 tubing products offer the following:

- Meets the requirements of FDA under paragraph 177.1520
- Meets REACH, ROHS requirements and does not contain any substances listed on Proposition 65

## Chemical Resistance

Ratings for ideal conditions 73° F / 25° C

Strong Mineral Acids	Excellent
Organic Acids	Good
Weak Acids	Excellent
Bases - Weak	Excellent
Bases - Strong	Good
Solvents	Good

## Dura PolyFLEX™ 52 Size Chart

Catalog Number	ID Size In.	OD Size In.	Wall	Operating Pressure PSIG 73° F	Case Qty. Ft.
8950-4281	.170	1/4	.040	140	100
8950-4335	1/4	3/8	1/16	150	100
8950-4430	3/8	1/2	1/16	108	100
8950-4505	1/2	5/8	1/16	80	100

## Physical Properties

Model	Dura PolyFLEX™ 52	
Properties	ASTM Method	Value Rating
Hardness; Shore D (+/- 5)	D2240	52
Vacuum		Not Recommended
Operating temperature range		-100° - 175° F -73° - 79° C
Maximum Working Pressure	D380	73° F / 150PSI 125° F / 90PSI
Testing Size	1/4"ID x 1/16"W	
Color		Natural
Odor		Slight
Taste		None
Specific Gravity; g/cm <sup>3</sup>	D792	.919
Tensile Strength; psi	D638	5100
Ultimate Elongation; %	D638	670
Flame Resistance	D568	Slow Burn