



# ClearFLEX™ 70-1

## Product Features

All ClearFLEX™ 70-1 tubing products offer the following:

- Crystal Clarity for visible flow
- Compliance with USP Class VI, USDA Standards & NSF-51
- Compliance with FDA CFR 21 for food packaging
- May be sterilized by autoclaving, gas or chemical methods (see website for details)

## ClearFLEX™ 70-1 PVC

For Food, Dairy and Beverage Processing Application

- Non-toxic
- Will not impart taste or odors
- Resistant to alkaline cleaners and sanitizers
- Flexible and easy to install and fit around corners – minimizes couplings

## Typical Applications

- Transfer of foods, syrups, cooking oils, flavor extracts and preservatives
- Transfer of milk and milk products
- Administration of parenterals
- Dialysis
- Blood transfer

## Specifications

All ClearFLEX™ 70-1 tubing products offer the following:

- Meets the requirements of the U.S. Pharmacopoeia Class VI Biological Tests for Plastics;
- Is non-hemolytic/blood compatible;
- Meets the US Dept. of Agriculture acceptance standards for contact with meat and poultry food products;
- Is manufactured from ingredients whose usage is sanctioned by the US Food & Drug Administration under Title 21 of the Code of Federal Regulations for food packaging applications, per the following:

### Ingredients & CRF Paragraph No.

Polyvinyl Chloride	175.300
Plasticizers	181.27
Stabilizers	178.2010
Colorants	178.3970

## Chemical Resistance

Ratings for ideal conditions 73°F / 25°C

Strong Mineral Acids	Fair
Organic Acids	Good
Weak Acids	Excellent
Bases - Weak	Excellent
Bases - Strong	Good
Solvents	Not Recommended

# ClearFLEX™ 70-1 Size & Physical Properties

## Size Chart

Catalog Number	ID Size In.	OD Size In.	Wall	Operating Pressure PSIG 73°F	Case Qty. Ft.
8170-4170	1/16	1/8	1/32	66	100
8170-4175	1/16	3/16	1/16	80	100
8170-4220	3/32	5/32	1/32	56	100
8170-4240	1/8	3/16	1/32	46	100
8170-4245	1/8	1/4	1/16	68	100
8170-4270	5/32	7/32	1/32	56	100
8170-4275	5/32	9/32	1/16	60	100
8170-4290	3/16	1/4	1/32	34	100
8170-4295	3/16	5/16	1/16	54	100
8170-4305	3/16	7/16	1/8	80	100
8170-4335	1/4	3/8	1/16	46	100
8170-4340	1/4	7/16	1/32	58	100
8170-4345	1/4	1/2	1/8	70	100
8170-4390	5/16	7/16	1/16	40	100
8170-4400	5/16	9/16	1/8	62	100
8170-4405	5/16	5/8	5/32	68	100
8170-4430	3/8	1/2	1/16	34	100
8170-4435	3/8	9/16	3/32	48	100
8170-4440	3/8	5/8	1/8	58	100
8170-4470	7/16	1-1/16	1/8	48	100
8170-4505	1/2	5/8	1/16	28	100
8170-4510	1/2	11/16	3/32	38	100
8170-4515	1/2	3/4	1/8	44	100
8170-4570	5/8	7/8	1/8	38	100
8170-2590	11/16	15/16	1/8	36	100
8170-2605	3/4	1	1/8	34	50
8170-2640	7/8	1-1/8	1/8	30	50
8170-2675	1	1-1/4	1/8	28	50
8170-2685	1	1-3/8	3/16	38	50
8170-2690	1	1-1/2	1/4	44	50
8170-2710	1-1/4	1-1/2	1/8	24	50
8170-2715	1-1/4	1-5/8	3/16	34	50
8170-2750	1-1/2	1-7/8	3/16	28	50
8170-2755	1-1/2	2	1/4	36	50
8170-2790	2	2-1/2	1/4	28	50

## Physical Properties

Properties	ASTM Method	Value Rating
Hardness; Shore A (+/- 5)	D2240	70
Vacuum		Not Recommended
Operating temperature range		-10° - 175°F -23° - 79°C
Maximum Working Pressure		73°F - 120°F 46PSI - 23PSI
Testing Size		1/4"ID x 1/16"W
Color		Crystal Clear
Odor		Slight
Taste		None
Specific Gravity; g/cm <sup>3</sup>	D792	1.20
Tensile Strength; psi	D638	2200
Ultimate Elongation; %	D638	400
Flame Resistance	D568	Self-extinguishing