



# ClearFLEX™ 70NP

## Product Features

The ClearFLEX™ 70NP non-phthalate product line is made from a 70 durometer flexible PVC compound that is bovine-free and formulated with a unique non-DEHP, non-phthalate plasticizer for use food and beverage applications, the transfer of milk products and medical devices where the presence of phthalates is undesirable. The ingredients in this compound allow distributors and end users to market its use not only in the USA but also in Europe.

### ClearFLEX™ 70NP Non-Phthalate PVC

For Food and Beverage Processing plus Laboratory, Medical and Pharmaceutical Applications

- Complies with FDA CFR 21 for food packaging
- Complies with USP Class VI, NSF-51 and USDA standards
- Non-toxic
- Will not impart taste or odors
- Flexible and easy to install and fit around corners – minimizes couplings
- Clear for visual inspection and flow control
- Meets RoHS, REACH and Proposition 65 requirements

## Typical Applications

- General Laboratory
- Transfer of foods, beverages, syrups, cooking oils, flavor extracts and preservatives
- Transfer of milk and milk products
- Blood transfer lines and other medical devices
- Pharmaceutical
- Brewery & Winery
- Vitamins & Supplement

## Specifications

All ClearFLEX™ 70NP tubing products offer the following:

- Acceptable for food contact by the following standard: *Every substance selected to formulate the items below is either “generally recognized as safe” (GRAS), prior-sanctioned, subject to an effective Food Contact Notification (FCN), subject to a Threshold of Regulation (TOR) exemption, or identified on one or more following sections of Title 21 of the Code of Federal Regulations published by the U.S. Food and Drug Administration (FDA): 181.5, 181.27, 178.2010, 172.860, 174.5*
- NSF-51 certified
- Meets the requirements of the U.S. Pharmacopoeia Class VI Biological Tests for Plastics
- Meets ISO 10993
- Meets RoHS, REACH and Proposition 65 requirements

## 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™ 70NP Size & Physical Properties

## Size Chart

Catalog Number	ID Size In.	OD Size In.	Wall	Operating 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	1/32	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	1-1/16	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	100
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

## Physical Properties

Properties	ASTM Method	Value Rating
Hardness; Shore A (+/- 5)	D2240	70
Vacuum		Not Recommended
Operating temperature range		-10 -175
Maximum Working Pressure		73° / 47PSI 125° / 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	1.19
Tensile Strength; psi	D638	2425
Ultimate Elongation; %	D638	400
Brittle Point, Celsius	D746	-31

\* 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.