

TBL

Pharm-A-Line VI & XL™

Chemically Inert Clear Tubing

Excellent Chemical Resistance
Superior Barrier Properties
Superior Flexibility
Superior Clarity
USP Class VI
Low TOC



Our Pharm-A-Line VI and XL co-extruded tubing combines the best properties of two dissimilar materials, providing a clear, seamless, lightweight and flexible product with important benefits.

The liner, (or contact surface), is made of a clear, chemically inert, low-density polyethylene (LDPE) material. The outer shell is manufactured from high-purity ethylene vinyl acetate (EVA), which gives superior flexibility and clarity along with good burst strength.

While Pharm-A-Line VI and XL are made of the same base materials, Pharm-A-Line XL is gamma-irradiated, which cross-links the material for even greater thermal, chemical and mechanical performance.

Both Pharm-A-Line VI and XL are USP Class VI certified. They resist attack from most solvents. Both are plasticizer free and REACH compliant. Pharm-A-Line VI and XL have excellent barrier characteristics along with very low gas and liquid permeability. Both work well with compression and other types of push-on fittings.

Pharm-A-Line VI and XL meet the most stringent criteria for bio-pharmaceutical product transfer. They are also widely used in the water and printing industries.

Pharm-A-Line VI & XL™
Chemically Inert Clear Tubing

Thermoplastic BioLogic, Inc.
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TBL
ThermoplasticBioLogic
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Pharm-A-Line VI & XL™

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Sizing Chart

Part Number	ID	OD	Wall	Length	Working at 72° F	Tri-Clamp
PH**-062X187	1/16"	3/16"	1/16"	100'	76 PSI	Mini
PH**-125X187	1/8"	3/16"	1/32"	100'	43 PSI	Mini
PH**-125X250	1/8"	1/4"	1/16"	100'	70 PSI	Mini
PH**-187X312	3/16"	5/16"	1/16"	100'	60 PSI	Mini
PH**-187X250	3/16"	1/4"	1/32"	50'	38 PSI	Mini
PH**-250X375	1/4"	3/8"	1/16"	50'	60 PSI	Mini, 1"
PH**-312X437	5/16"	7/16"	1/16"	50'	52 PSI	Mini, 1"
PH**-375X500	3/8"	1/2"	1/16"	50'	50 PSI	Mini, 1"
PH**-375X625	3/8"	5/8"	1/16"	50'	50 PSI	Mini, 1"
PH**-500X625	1/2"	5/8"	1/16"	50'	32 PSI	1"
PH**-500X750	1/2"	3/4"	1/8"	50'	50 PSI	1"
PH**-625X875	5/8"	7/8"	1/8"	50'	47 PSI	1"
PH**-750X1.00	3/4"	1"	1/8"	50'	40 PSI	1"

To specify Pharma-A-Line VI, replace ** with letters VI. For Pharma-A-Line XL, replace ** with XL

Note: XL = cross linked (Gamma Irradiated) Plastic for Higher Performance

Specifications

Operating Conditions

Pharm-A-Line XL -60° to 180° F (-51° to 82° C)

Pharm-A-Line VI -60° to 160° F (-51° to 71° C)

Benefits

- Superior Chemical Resistance
- Flexible
- Welds with RF and Conventional Heat Sealers
- Easy to Post-fabricate
- Superior Pressure Rating
- Nonhemolytic
- Low cost

Packaging

- Continuous coils
- Pre cut lengths
- Clean Room Packaged

Sterilization

- Ethylene Oxide (ETO)
- Gamma Irradiated

Certifications

- U.S. Pharmacopoeia Class VI Certification
- Cytotoxicity Criteria
- RoHS Compliant
- REACH Compliant
- CFR Title 21 Section 177.1350
- CFR Title 21 Section 177.1520
- Traceability: Lot and Batch
- Certification: Lot and Batch

- Excellent Chemical Resistance
- Superior Barrier Properties
- Superior Flexibility
- Superior Clarity
- USP Class VI
- Low TOC

Additional Data

Values	Liner	Shell
Material	LDPE	EVA
Durometer (5SEC.ASTM D2240)	50 (Shore D)	80 (Shore A)
Tensile Strength, Yield (ASME D-638)	2,100 PSI	2,500 PSI
Tensile Elongation (Break) (ASTM D-638)	550 %	750 %
Tensile Stress @ 100 psi (ASTM D-638)	420	400
Flexural Modulus (ASTM 790)	28,500 PSI	2,300 PSI
Tear Resistance Lb./in	N/A	128
Compression Set (ASTM D 395)	N/A	49%
Brittle Point, °F (ASTM D-746)	-29	-148
Low Temp. Flex at -40 (Fahrenheit)	Passed	Passed
Heat Resistance (Fahrenheit)	160F	160F

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