

# ChemaLine™

Chemically Inert Clear Tubing

EXCELLENT CHEMICAL RESISTANCE

SUPERIOR BARRIER PROPERTIES

SUPERIOR FLEXIBILITY

SUPERIOR CLARITY

USP CLASS VI

LOW TOC

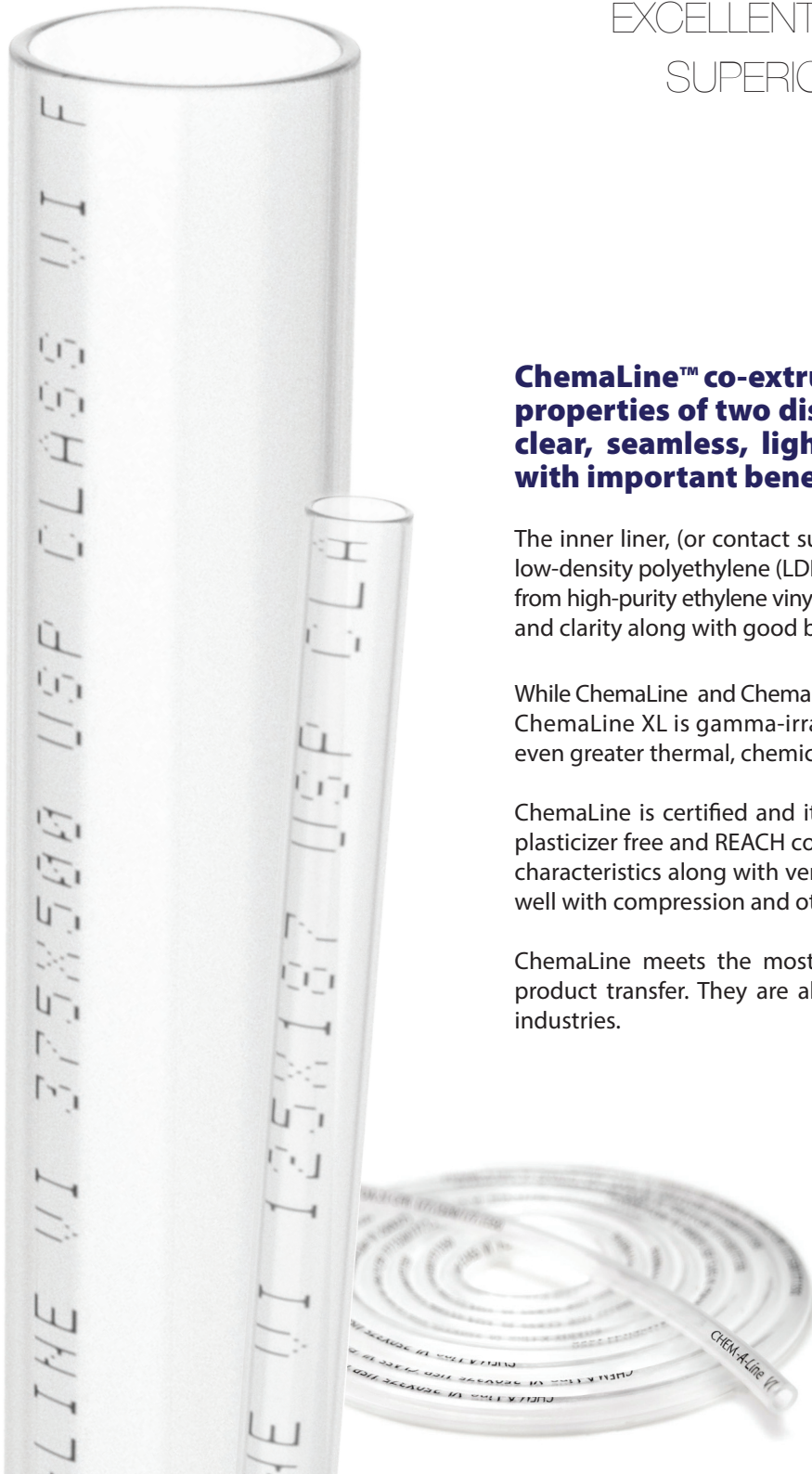
**ChemaLine™ co-extruded tubing combines the best properties of two dissimilar materials, providing a clear, seamless, lightweight and flexible product with important benefits.**

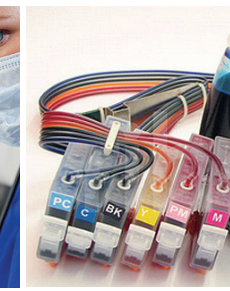
The inner liner, (or contact surface), is made of a clear, chemically inert, low-density polyethylene (LDPE) material. The outer shell is manufactured from high-purity ethylene vinyl acetate (EVA), which gives superior flexibility and clarity along with good burst strength.

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

ChemaLine is certified and it can resist attack from most solvents. It is plasticizer free and REACH compliant. Chem-A-Line has excellent barrier characteristics along with very low gas and liquid permeability. It works well with compression and other types of push-on fittings.

ChemaLine meets the most stringent criteria for bio-pharmaceutical product transfer. They are also widely used in the water and printing industries.





## Specifications

### Operating Conditions

ChemaLine XL -60°F to 180°F (-51°C to 82°C)

ChemaLine VI -60°F to 160°F (-51°C to 71°C)

### Benefits

Superior Chemical Resistance

Flexible

Welds with RF and Conventional Heat Sealers

Easy to Post-Fabricate

Superior Pressure Rating

Non-Hemolytic

Low Cost

### Packaging

Continuous Coils

Pre-Cut Lengths

Clean Room Packaged

### Sterilization

Ethylene Oxide (ETO)

Gamma Irradiated

### Certifications

U.S. Pharmacopeia 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

Current Good Manufacturing Practices (CGMP)

## Sizing Chart

Part Number	ID	OD	Wall	Length	Working at 72°F/22°C	Tri-Clamp
TT-EVP.062-.187CL-100	1.6mm	4.8mm	1.6mm	30.5m	76 PSI	Mini
TT-EVP.125-.187CL-100	3.2mm	4.8mm	0.8mm	30.5m	43 PSI	Mini
TT-EVP.125-.250CL-100	3.2mm	6.4mm	1.6mm	30.5m	70 PSI	Mini
TT-EVP.187-.312CL-100	4.8mm	7.9mm	1.6mm	30.5m	60 PSI	Mini
TT-EVP.187-.250CL-50	4.8mm	6.4mm	0.8mm	15.2m	38 PSI	Mini
TT-EVP.250-.375CL-50	6.4mm	9.5mm	1.6mm	15.2m	60 PSI	Mini, 25.4mm
TT-EVP.312-.437CL-50	7.9mm	11.1mm	1.6mm	15.2m	52 PSI	Mini, 25.4mm
TT-EVP.375-.500CL-50	9.5mm	12.7mm	1.6mm	15.2m	50 PSI	Mini, 25.4mm
TT-EVP.375-.625CL-50	9.5mm	15.9mm	1.6mm	15.2m	50 PSI	Mini, 25.4mm
TT-EVP.500-.625CL-50	12.7mm	15.9mm	1.6mm	15.2m	32 PSI	25.4mm
TT-EVP.500-.750CL-50	12.7mm	19.1mm	3.2mm	15.2m	50 PSI	25.4mm
TT-EVP.625-.875CL-50	15.9mm	22.2mm	3.2mm	15.2m	47 PSI	25.4mm
TT-EVP.750-1.00CL-50	19.1mm	25.4mm	3.2mm	15.2m	40 PSI	25.4mm

**Note: XL = cross linked** (Gamma Irradiated) Is available upon request

## 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 (ASTM D-746)	-29°F/-34°C	-148°F/-100°C
Low Temp. Flex at -40°F/-40°C	Passed	Passed
Heat Resistance	160°F/71°C	160°F/71°C



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