

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	Tri-Clamp
TT-EVP.062-.187CL-100	.062"	.187"	.062"	100'	76 PSI	Mini
TT-EVP.125-.187CL-100	.125"	.187"	.031"	100'	43 PSI	Mini
TT-EVP.125-.250CL-100	.125"	.250"	.062"	100'	70 PSI	Mini
TT-EVP.187-.312CL-100	.187"	.312"	.062"	100'	60 PSI	Mini
TT-EVP.187-.250CL-50	.187"	.250"	.031"	50'	38 PSI	Mini
TT-EVP.250-.375CL-50	.250"	.375"	.062"	50'	60 PSI	Mini, 1"
TT-EVP.312-.437CL-50	.312"	.437"	.062"	50'	52 PSI	Mini, 1"
TT-EVP.375-.500CL-50	.375"	.500"	.062"	50'	50 PSI	Mini, 1"
TT-EVP.375-.625CL-50	.375"	.625"	.062"	50'	50 PSI	Mini, 1"
TT-EVP.500-.625CL-50	.500"	.625"	.062"	50'	32 PSI	1"
TT-EVP.500-.750CL-50	.500"	.750"	.125"	50'	50 PSI	1"
TT-EVP.625-.875CL-50	.625"	.875"	.125"	50'	47 PSI	1"
TT-EVP.750-1.00CL-50	.750"	1"	.125"	50'	40 PSI	1"

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