

EXCELLENT CHEMICAL RESISTANCE · SUPERIOR BARRIER PROPERTIES
SUPERIOR FLEXIBILITY · SUPERIOR CLARITY
USP CLASS VI · LOW TOC

CHEMALINE™ CHEMICALLY INERT CLEAR TUBING

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. ChemaLine™ has excellent barrier characteristics along with very low gas and liquid permeability.

AVAILABLE COLORS

Clear

APPLICATIONS

Bio-Pharmaceutical Product Transfer

Water and Printing Industries

Compression and Other Types of Push-On Fittings

BENEFITS

Superior Chemical Resistance

Flexible

Welds with RF and Conventional Heat Sealers

Easy to Post-Fabricate

Superior Pressure Rating

Non-Hemolytic

Low Cost

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)

PACKAGING

Continuous Coils / Pre-Cut Lengths / Clean Room Packaged



SIZING CHART

Part Number	ID	OD	Wall	Working at 72°F	Std. Length	Tri-Clamp
TT-EVP.062-.187CL-100	.062"	.187"	.062"	76 PSI	100'	Mini
TT-EVP.125-.187CL-100	.125"	.187"	.031"	43 PSI	100'	Mini
TT-EVP.125-.250CL-100	.125"	.250"	.062"	70 PSI	100'	Mini
TT-EVP.187-.312CL-100	.187"	.312"	.062"	60 PSI	100'	Mini
TT-EVP.187-.250CL-50	.187"	.250"	.031"	38 PSI	50'	Mini
TT-EVP.250-.375CL-50	.250"	.375"	.062"	60 PSI	50'	Mini, 1"
TT-EVP.312-.437CL-50	.312"	.437"	.062"	52 PSI	50'	Mini, 1"
TT-EVP.375-.500CL-50	.375"	.500"	.062"	50 PSI	50'	Mini, 1"
TT-EVP.375-.625CL-50	.375"	.625"	.062"	50 PSI	50'	Mini, 1"
TT-EVP.500-.625CL-50	.500"	.625"	.062"	32 PSI	50'	1"
TT-EVP.500-.750CL-50	.500"	.750"	.125"	50 PSI	50'	1"
TT-EVP.625-.875CL-50	.625"	.875"	.125"	47 PSI	50'	1"
TT-EVP.750-1.00CL-50	.750"	1"	.125"	40 PSI	50'	1"

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

PHYSICAL PROPERTIES**

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%
Low Temp. Flex at -40°F/-40°C	Passed	Passed

THERMAL PROPERTIES**

	Liner	Shell
Brittle Point (ASTM D-746)	-29°F/-34°C	-148°F/-100°C
Heat Resistance	160°F/71°C	160°F/71°C

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)

STERILIZATION

Ethylene Oxide (ETO) / Gamma Irradiated

**Unless otherwise indicated, the values listed are the typical properties of the material used in manufacture and are intended only for use as a guide. Actual values for application should be determined through field testing.