



TBL

Envir-A-Line XX

Photo Opaque PVC with Hytrel™ Liner

Excellent Flexibility
No Plasticisers



Envir-A-Line XX composite tubing is commonly used for the conveyance of a wide variety of **gases**, including **refrigerants** and **hydrocarbons**. It has a unique **co-extruded** construction, incorporating a highly inert **Hytrel®** liner that exhibits excellent dielectric properties as well as superior barrier performance to nonpolar materials, even at elevated temperatures. Because Hytrel® has no plasticizers it does not outgas.

The product's outer shell is comprised of a **DEHP Free**, permeable, photo opaque, black vinyl, allowing it to be repeatedly autoclaved without separation of the two materials. Because no ingredients contain Phthalates, **Envir-A-Line XX** meets **REACH** compliance.

Envir-A-Line XX is also widely used in the welding industry for **ground wire** applications because of its dielectric properties.

With a high temperature liner, **Envir-A-Line XX** is also ideal for **beverage vending** applications.

Envir-A-Line XX can be provided on a customized basis with a white vinyl outer shell for hygienic aesthetics.



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TBL Plastics, LLC
PO Box 634
Andover, New Jersey 07821

Tel. 973.383.2834
Fax 973.383.4161
sales@tblplastics.com



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ThermoplasticBiologic
A RubberFab Technologies Affiliate
www.tblplastics.com

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Sizing Chart

Part Number	ID	OD	Wall	Std. Length
HPVC-125X220	1/8"	.220"	.048"	100' 500' 1000'
HPVC-170X250	.170"	1/4"	.04"	100' 500' 1000'
HPVC-170X314	.170"	.314"	.072"	100' 500' 1000'
HPVC-187X275	3/16"	.275"	.044"	100' 500' 1000'
HPVC-250X375	1/4"	3/8"	1/16"	100' 500'
HPVC-250X437	1/4"	7/16"	3/32"	100' 500'
HPVC-280X468	.280"	15/32"	3/32"	100' 500'
HPVC-375X500	3/8"	1/2"	1/16"	100' 500'
HPVC-500X625	1/2"	5/8"	1/16"	100' 500'
HPVC-500X687	1/2"	11/16"	.093"	100' 500'
HPVC-500X750	1/2"	3/4"	1/16"	100' 500'

*Custom sizes and colors available. Contact factory.

Benefits

- High Purity Liner/High Temperature
- Extremely low gas and moisture permeability
- No plasticizers
- Excellent Flexibility

Certifications

- CFR Title 21 Section 177.1590
- CFR Title 21 Section 177.2600
- Photo Opaque FDA and NSF SI Compliant

Superior Dielectric
Properties

Custom Bonding
Also Available

Applications

- Welding Gases TIG/MIG/MAP
- Propane and Natural Gas
- Environmental Monitoring Equipment (air)
- Refrigerant Gases
- Hydrocarbons
- Ground Wires

Packaging

- Continuous coils
- Pre-cut lengths
- Crimped ends

Sterilization

- Ethylene Oxide (ETO)
- Autoclave
- Gamma

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Physical Properties

Material Properties	Hytrel - Inner Liner Value (Test Method)	Black Vinyl - Outer Shell Value (Test Method)
Mechanical		
Hardness	55 Shore D (ISO 868)	80 Shore A
Tensile Strength	6000psi (ISO 527)	2000
Strain at Break	500% (ISO 527)	360%
Flexural Modulus (73°F)	26000psi (ISO 178)	
Thermal		
Brittle Temp	<-148°F (ISO 974)	-25.6°F
Deflection Temperature (0.45Mpa)	160°F (ISO 75f)	160°F
Electrical		
Surface Resistivity	>1E15ohms (IEC 60093)	
Volume Resistivity	4E11ohms*m (IEC 60093)	
Dissipation Factor (1E2 Hz)	90E-4 (IEC 60250)	
Dissipation Factor (1E6 Hz)	375E-4 (IEC 60250)	
Electric Strength	19kV/mm (IEC 60243-1)	
CTI	>600V (IEC 60112)	
Flammability		
Classification (1.5mm)	HB (IEC 60695-11-10)	
Classification (1.5mm)	HB (UL 94)	
Classification (1.0mm)		V-0 (UL 94)
Oxygen Index	20% (ISO 4589-1/-2)	
High Amp Arc Ignition Resistance (3.0mm)	>200 arcs (UL 746A)	
Hot Wire Ignition (3.0mm)	31s (UL 746A)	
Other		
Specific Gravity	1.2	1.35
Sunlight Resistance		720 hours

*This information was provided to TBL Plastics by suppliers and other sources believed to be credible. It should be used only as a general reference to aid in selection of products. This guide is not intended as a complete nor conclusive database. TBL Plastics does not guarantee this information since the effect of any chemical on a material may be affected greatly by temperature, concentration, operating pressure, and presence of other chemicals. Ultimately, the consumer must determine the compatibility of any chemical based on tests done under their particular process conditions.

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