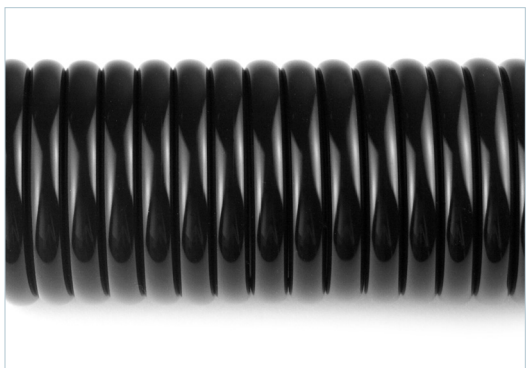
Envir-A-Line XX

Photo Opaque PVC with Hytrel™ Liner

Excellent Flexibility
No Plasticisers



Envir-A-Line XX is commonly used for many **gases** and **hydrocarbons**. has a unique **co-extruded** construction, incorporating a highly inert Hytrel™ inner-liner that exhibits excellent dielectric properties and provides a superior **gas** and **moisture barrier**. Its moisture permeability is similar to poly-ether based urethanes. The product's outer shell is comprised of a permeable photo-opaque black PVC, so the product can be repeatedly autoclaved without the two materials separating.

Used widely in the **welding** industry because of its superior barrier and dielectric characteristics, Hytrel™ contains no plasticizers and does not outgas. The consistant quality and performance of Envir-A-Line is due partly to the industry leading thickness of our Hytrel™ inner-liner thickness.

Envir-A-Line is also commonly used in the **beverage industry**. It is FDA approved and compliant with NSF51 standards for **potable water**.

*Also available with photo opaque hygienic white outer shell, high pressure outer braiding for higher pressures.

Envir-A-**Line XX**
Photo Opaque PVC with Hytrel™ Liner

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

Tel. 973.383.2834
Fax 973.383.4161
sales@tblplastics.com

ThermoplasticBioLogic
A RubberFab Technologies Affiliate
www.tblplastics.com

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Sizing Chart

Part Number	ID	OD	Wall	Std. Lenght
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′

Applications

- Welding Gases TIG/MIG/MAP
- Potable Water
- Environmental Monitoring Equipment (air)
- Refrigerant Gases
- Hydrocarbons

Benefits

- High Purity Liner/High Temperature
- Extremely low gas and moisture permeability
- No plasticizers
- Photo Opaque FDA and NSF approved
- Excellent Flexibility

Packaging

- Continuous coils
- Pre-cut lengths
- Crimped ends

Certifications

- CFR Title 21 Section 177.1550
- CFR Title 21 Section 177.2600
- NSF

Sterilization

- Ethylene Oxide (ETO)
- Autoclave

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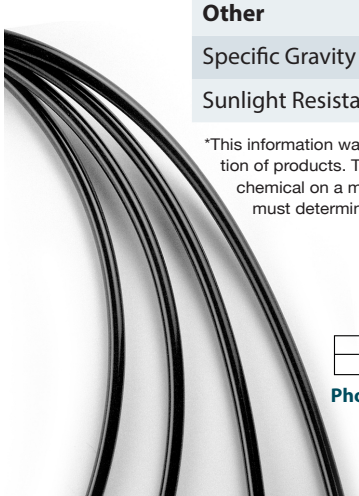
Physical Properties

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 Strenght	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 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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