

# VaporPro™

## ASTM-CERTIFIED VAPOR BARRIER FILM & TAPE

**Revolution**  
redefine possible.



Industry leading performance,  
exceeding ASTM standards,  
at incredible value.



✉ [vaporpro@revolutioncompany.com](mailto:vaporpro@revolutioncompany.com)

☎ 972.216.3331

➤ [revolutioncompany.com](http://revolutioncompany.com)

## About Revolution

### Plastic solutions redefined

At Revolution, we create sustainable loop solutions that protect the environment and enable a more sustainable future. We deliver smarter plastic products and recycling services across agriculture, commercial, consumer, materials, and stretch solutions.

### We see plastic's potential

For nearly 30 years, we've seen opportunity where others see plastic waste. Through our integrated, sustainable loop model, we reclaim and reuse plastics to create more value, more efficiency, and less environmental impact.



**12**

manufacturing  
and recycling  
plants

**3**

decades in  
flexible plastics  
expertise

**1500+**

employees  
creating  
products

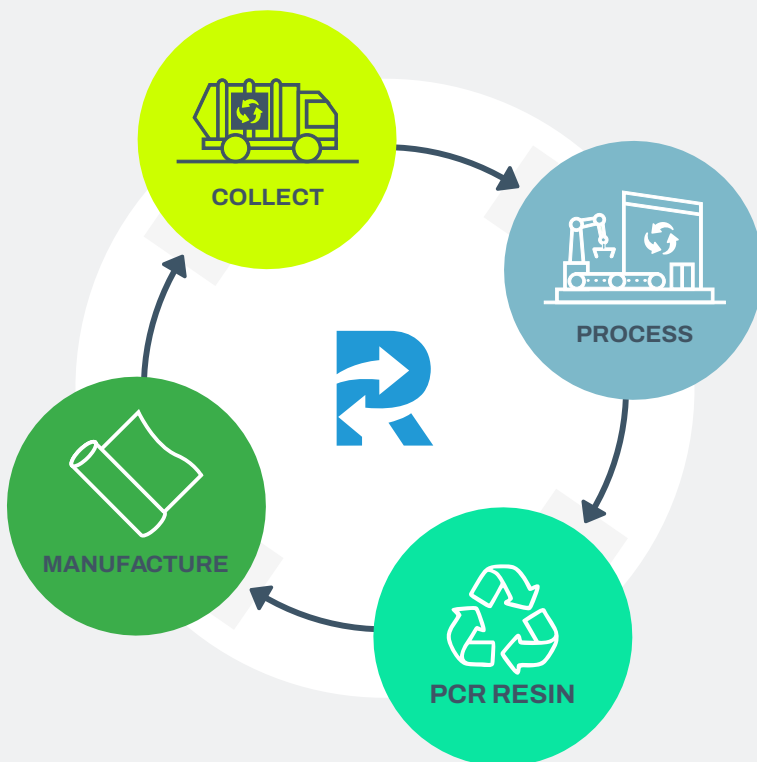
## Part of the Revolution Sustainable Solutions infrastructure.

### We Keep Film Flowing— From Collection to Creation

We don't just collect film, we transform it. From manufacturing to recycling, every step happens inside the Revolution ecosystem.



## The Revolution Circle



### Recover

We collect landfill-bound plastic material, providing a new resource for creating plastic solutions

### Recycle

We process, clean & recycle the plastic into certified recycled resin

### Create

We create & apply sustainable plastic solutions

## VaporPro™

### ASTM-CERTIFIED VAPOR BARRIER FILM

VaporPro™ **ASTM-Certified Class A** Vapor Barrier is a high-performance polyethylene film designed for use as a vapor retarder under concrete slabs. This film is manufactured in the United States of America using high quality prime, virgin resins. VaporPro is designed as a low permeance, high strength, and high puncture resistant film that meets and exceeds the ASTM E1745 requirements for a Class A vapor retarder.

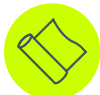
### FEATURES & BENEFITS:



Manufactured by Revolution in our facility in the U.S.A



Lifetime Warranty



High Visibility Color



Heavy-Duty Performance



ASTM-Certified

### SIZES:

Available in 10mil, 15mil, 20mil gauge



### Trusted On Jobsites Nationwide

*“We cut install time by 20% and avoided callbacks after switching to VaporPro™. The difference in quality is obvious.”*

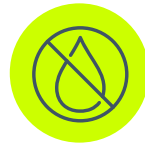
CONCRETE CONTRACTOR, TEXAS

## The Revolution Advantage



### Control Costs

Competitive pricing + high-performance specs



### Low Vapor Permeance

Blocks moisture migration more effectively than competitors



### We Own the Plants

Made in the USA  
Manufactured with virgin resins.



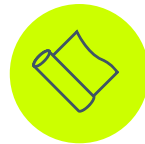
### High Strength & Puncture Resistance

Resists punctures and jobsite damage.



### Operate Efficiently

Available in the sizes, gauges, and specs you need



### Wide Range of Sizes & Specs

Fits residential and commercial projects.



### We Beat Standards

Exceeds ASTM E1745 Class A standards.



# VaporPro™ Data



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## PRODUCT NAME

VaporPro™ ASTM-Certified Class A Vapor Barrier

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## MANUFACTURER

Revolution Commercial Solutions (TX), LLC  
 3328 Executive Blvd  
 Mesquite, TX 75149  
 vaporpro@revolutioncompany.com  
 972.216.3331  
 revolutioncompany.com

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## PRODUCT DESCRIPTION

USES: VaporPro™ is a high-performance polyethylene film designed for use as a vapor retarder under concrete slabs. This film is manufactured in the United States of America using high quality prime, virgin resins. VaporPro is designed as a low permeance, high strength, and high puncture resistant film that meets and exceeds the ASTM E1745 requirements for a Class A vapor retarder.

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## TECHNICAL DATA

Properties	Test Method	10 Mil	15 Mil	20 Mil	ASTM E1745-17 Class A, B, C
<b>Color</b>		Green	Green	Green	
<b>Thickness, Nominal</b>		10 mil	15 mil	20 mil	
<b>Roll Dimensions: Commercial / Residential</b>		14' x 210' / 14' x 105'	14' x 140' / 14' x 70'	14' x 105'	
<b>Surface Area: Commercial / Residential</b>		2,940 ft <sup>2</sup> / 1,470 ft <sup>2</sup>	1,960 ft <sup>2</sup> / 980 ft <sup>2</sup>	1,470 ft <sup>2</sup>	
<b>Roll Weight: Commercial / Residential</b>		141 lbs / 71 lbs	141 lbs / 71 lbs	141 lbs	
<b>Classification</b>	ASTM E1745-17	Class A, B, & C	Class A, B, & C	Class A, B, & C	Class A, B, or C
<b>Puncture Resistance</b>	ASTM D1709 Method B Drop Height 60 inches	2645 g	3055 g	3238 g	Class A = 2200 g Class B = 1700 g Class C = 475 g
<b>Tensile Strength</b>	ASTM D882	55 lbf/in	82 lbf/in	105 lbf/in	Class A = 45 lbf/in Class B = 30 lbf/in Class C = 13.6 lbf/in
<b>Permeance New Material After Conditioning</b>	ASTM F1249, E154 Section 7 Section 8 after wetting, drying, soaking Section 11 after heat conditioning Section 12 after low temp conditioning Section 13 after soil organism exposure	0.00807 0.00347 0.00300 0.00392 0.00541	0.00464 0.00383 0.00349 0.00311 0.00412	0.00428 0.00526 0.00586 0.00399 0.00354	Class A, B, & C 0.1 Perms Max
<b>Methane Gas Permeation</b>	ISO 2782-1	444 GTR, mL(STP)/(m <sup>2</sup> *day)	287 GTR, mL(STP)/(m <sup>2</sup> *day)	95 GTR, mL(STP)/(m <sup>2</sup> *day)*	
<b>Radon Diffusion Coefficient</b>	K124/02/95	(2.76 ± 0.29) × 10 <sup>-12</sup> (m <sup>2</sup> s <sup>-1</sup> )	(3.64 ± 0.36) × 10 <sup>-12</sup> (m <sup>2</sup> s <sup>-1</sup> )	(3.70E±0.40) × 10 <sup>-12</sup> (m <sup>2</sup> s <sup>-1</sup> )*	

## VaporPro™ Data

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### INSTALLATION

VaporPro™ vapor barrier is to be installed by following the guidelines of ASTM E1643. Unroll the vapor barrier over a sand, tamped earth, or aggregate base. Ensure that the seams of vapor barrier overlap a minimum of six inches and are sealed using a low permeance, high adhesion seam tape. All penetrations of the vapor barrier film must be sealed according to ASTM E1643.

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### AVAILABILITY & COST

Revolution Commercial Solutions (TX), LLC  
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vaporpro@revolutioncompany.com  
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### LIFETIME WARRANTY

Revolution offers a lifetime warranty on VaporPro™ to meet the published specifications as well as to be free of defects in product materials and workmanship at the time of shipment. Revolution does not offer any warranties with regards to the merchantability or fitness of products for a particular use. Please contact Revolution for more information surrounding the lifetime change of VaporPro™ solutions.

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### TECHNICAL SERVICES

vaporpro@revolutioncompany.com  
972.216.3331



## VaporPro™ PE Film Tape

### HEAVY-DUTY PERMANENT TAPE FOR VAPOR BARRIER

This heavy-duty permanent tape is designed for seaming VaporPro™ vapor barrier sheeting and similar polyethylene materials.

#### FEATURES & BENEFITS:



Good tear characteristics



Permanently tacky adhesive



Product is very conformable



Maintains a watertight seal  
in all weather conditions



ASTM-Certified



*“To be truly sustainable,  
we put people and the  
environment at the  
forefront of all we do.”*

VP Sustainability & Public Affairs

#### SIZES:

Available in 3.77” x 180’ rolls

# VaporPro™ PE Film Tape Data



1

## PRODUCT NAME

VaporPro™ PE Film Tape

2

## MANUFACTURER

Revolution Commercial Solutions (TX), LLC  
3328 Executive Blvd  
Mesquite, TX 75149  
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## PRODUCT DESCRIPTION

VaporPro™ PE Film Tape is a heavy-duty, permanent tape designed for splicing VaporPro™ vapor barrier sheeting and other polyethylene materials to create a secure, watertight seal. Its PE film backing and permanently tacky synthetic rubber adhesive bond well to most surfaces across a wide temperature range, including low temperatures. Highly conformable and tear-resistant, it delivers reliable performance in all weather conditions.

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## TECHNICAL DATA

Technical Property	Nominal Value	Unit	Test Method
Adhesive Thickness (Synthetic Rubber)	2.5 (.064)	Mils (mm)	-
Backing Adhesion (Initial to Backing Substrate, 20 min @ RT)	35 (9.6)	Oz/Inch (N/25mm)	PSTC-101 Mod
Adhesion to Steel	85 (23.3)	Oz/Inch (N/25mm)	ASTM D-3330
Elongation	75	%	ASTM D-7359
Peel Adhesion (Initial to S.S., 20 min @ RT)	60 (16)	Oz/Inch (N/25mm)	PSTC-101 Mod
Tensile Strength	23 (100.7)	Lbs/Inch (N/25mm)	ASTM D-3759
Shear Strength	<350	Hours	ASTM D-1000
Total Thickness (Not including liner)	7.5 (.19)	Mils (mm)	ASTM D-3652
Permeance	0.1	US Perms	ASTM D-1249
WVTR	0.22	g/100in <sup>2</sup> /24 hrs	ASTM F-1249
Operating Temperature Range	+20°F to +200°F (-7°C to +93°C)	(3.64 ± 0.36) × 10-12 (m2s-1)	-

The information presented herein was prepared by qualified technical personnel. To our knowledge it is true and accurate. However, the information and recommendations are furnished for that the purchaser or user, as the case may be, will independently determine that the product is suitable for the intended use, and that such use complies with all applicable federal, state and local laws and regulations. The data are submitted only for the user's information and consideration, and do not constitute a warranty of any kind (including but not limited to a warranty of merchantability or of fitness for a particular purpose), or a representation for which any legal responsibility is assumed.

# VaporPro™ PE Film Tape Data

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## INSTALLATION

Recommended installation per ASTM 1643.

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## AVAILABILITY & COST

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Mesquite, TX 75149  
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revolutioncompany.com

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## WARRANTY

Revolution offers a limited warranty on VaporPro™ Tape to meet the published specifications as well as to be free of defects in product materials and workmanship at the time of shipment. Revolution does not offer any warranties with regards to the merchantability or fitness of products for a particular use. Please contact Revolution for more information surrounding the limited warranty of VaporPro™ Tape.

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## TECHNICAL SERVICES

vaporpro@revolutioncompany.com  
972.216.3331





Subject to the terms and conditions of this warranty (this “Warranty”), Revolution Company, LLC (“Revolution”) issues a replacement warranty for VaporPro™ ASTM-CERTIFIED VAPOR BARRIER FILM (hereafter referred to as “VaporPro™ Barrier Film”), produced by Revolution to ASTM E1745 specifications current at the time of production and will not fail due to a defect in product material or workmanship, for the Lifetime from the date of installation. To be subject to this Warranty, the VaporPro™ Barrier Film must have been purchased from a person or entity specifically identified as an authorized dealer by Revolution of VaporPro™ Barrier Film, and VaporPro™ Barrier Film and installed pursuant to ASTM E1643 instructions. If a defect to the VaporPro™ Barrier Film is identified, written notice must be provided to Revolution within sixty (60) days of the date of discovery of the defect or date reasonably should have been discovered. Upon receipt of written notice, Revolution will, based on its evaluation, replace the VaporPro™ Barrier Film that it determines is defective without any cost to the end-user or refund purchase paid for the VaporPro™ Barrier Film at issue, at Revolution’s option. Replacement or refund will be the sole responsibility of Revolution and its affiliates and will be customers only recourse. Revolution will only address claims for VaporPro™ Barrier Film issues and failures due to defective workmanship or material. This replacement warranty will not apply to VaporPro™ Barrier Film failure due to any other reasons or causes. Revolution will not be responsible for any damage resulting from errors or omissions made by third parties, including its distributors and sales agents, the transport company, installers or the end-user.

THIS WARRANTY IS THE SOLE WARRANTY MADE BY REVOLUTION IN CONNECTION WITH THE VAPORPRO™ BARRIER FILM AND ALL OTHER WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER REPRESENTATIONS, WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE ARE DISCLAIMED. BY ACCEPTING THE DELIVERY OF THE VAPORPRO™ BARRIER FILM, THE CUSTOMER ACCEPTS THIS WARRANTY. REVOLUTION’S ONLY OBLIGATION TO THE DIRECT PURCHASER OF THE VAPORPRO™ BARRIER FILM IS TO REFUND PURCHASE PRICE OR REPLACE THE VAPORPRO™ BARRIER FILM DETERMINED BY REVOLUTION TO BE DEFECTIVE AND SUBJECT TO THE TERMS OF THIS WARRANTY. THE CUSTOMER ASSUMES ALL OTHER RISK AND LIABILITY IN CONNECTION WITH USE OF THE VAPORPRO™ BARRIER FILM, INCLUDING THE SUITABILITY OF THE VAPORPRO™ BARRIER FILM FOR THE CUSTOMER’S INTENDED USE. REVOLUTION SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES OR CLAIMS AND IN NO EVENT IS REVOLUTION LIABLE UNDER ANY CIRCUMSTANCES FOR CONSEQUENTIAL, PUNITIVE, INCIDENTAL, SPECIAL OR OTHER DAMAGES OR ECONOMIC LOSS OR LOST PROFIT.



## Submitting Defective Claims.

The customer will activate this Warranty by sending written notice of a claim directly to Revolution at its address at 3328 Executive Blvd., Mesquite, TX 75149 ATTN: VaporPro Claims. The following items must accompany the defective claim notice for the Warranty to be effective:

- Photographs of the defective VaporPro™ Barrier Film.
- Samples of the VaporPro™ Barrier Film section where the defect exists.
- Copy of the invoice associated with the VaporPro™ Barrier Film purchase.

Validation of defect by Revolution will be required once a claim is submitted.

## Warranty Limitations.

The Warranty will only be valid under the conditions which are below indicated:

- VaporPro™ Barrier Film must have been installed pursuant to ASTM E1643 instructions.
- Revolution will not be responsible for improper use of the VaporPro™ Barrier Film. The VaporPro™ Barrier Film must be used only in strict conformance with the published instructions located on Revolution's website at [www.revolutioncompany.com](http://www.revolutioncompany.com).
- VaporPro™ Barrier Film must have been purchased directly from Revolution or one of its authorized distributors.
  - Proof of purchase required, including photos of product labels
  - Project installation date and details

**The following list serves as examples of warranty exclusions and is not to be deemed as a comprehensive list of all potential warranty exclusions:**

- Physical damage or failure caused by abnormal weather-related conditions, including without limitation in improper storage or transportation.
- Damage or failure caused by any alterations and/or modifications made by anyone other than Revolution.
- Damage due to natural disasters, including but not limited to seismic events, fire, storms, or floods or other causes beyond Revolution's reasonable control.
- Improper installation, including failure to strictly follow published instructions and recommendations for proper installation.
- Defects in building structure.
- Degradation or failure caused by contact with chemicals.
- Use of the VaporPro™ Barrier Film other than for approved uses as strictly set forth on the instructions.

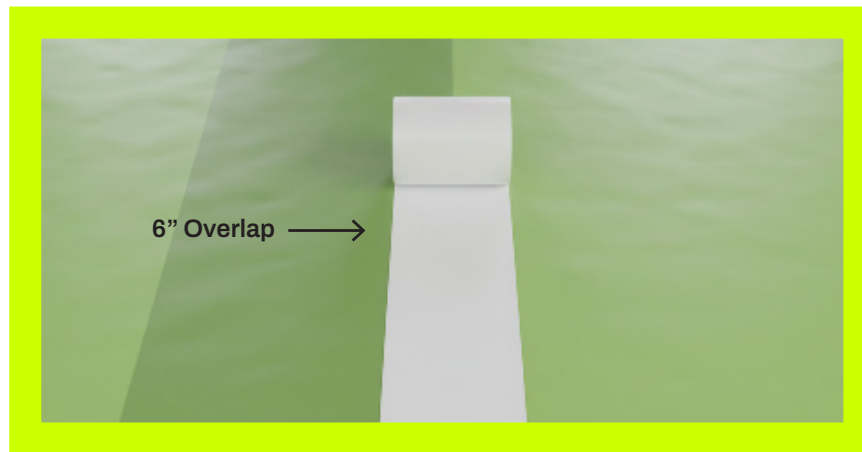
# VaporPro™ Installation Guide

## PRODUCT DESCRIPTION

VaporPro™ is a high-performance polyethylene film designed for use as a vapor retarder under concrete slabs. This film is manufactured in the United States of America using high quality prime, virgin resins. VaporPro is designed as a low permeance, high strength, and high puncture resistant film that meets and exceeds the ASTM E1745 requirements for a Class A vapor retarder.

## INSTALLATION INSTRUCTIONS

VaporPro™ vapor barrier is to be installed by following the guidelines of ASTM E1643.



### 1

## Section 6 – Placement

**ASTM E1643, Section 6.1** – Level and compact base material.

**ASTM E1643, Section 6.2** – Install vapor retarder material with the longest dimension parallel with the direction of concrete pour.

**ASTM E1643, Section 6.3** – Face laps away from the expected direction of the concrete pour whenever possible.

**ASTM E1643, Section 6.4** – Extend vapor retarder over footings and seal to foundation wall, grade beam, or slab at an elevation consistent with the top of the slab or terminate at impediments such as water stops or dowels. Seal around penetrations such as utilities and columns in order to create a monolithic membrane between the surface of the slab and moisture sources below the slab as well as at the slab perimeter.

**ASTM E1643, Section 6.5** – Lap joints minimum 6 in. (150 mm), or as instructed by the manufacturer, and seal laps in accordance with the manufacturer's recommendations.\*

**ASTM E1643, Section 6.6** – Extend vapor retarder over the top of pile caps and grade beams to a distance acceptable to the structural engineer and terminate as recommended by the manufacturer.

### 2

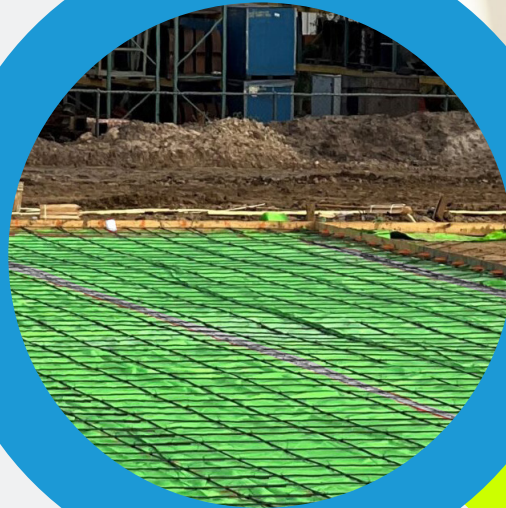
## Section 8 – Inspection and Repair

**ASTM E1643, Section 8.1** – Inspect and mark all areas of damage and insufficient installation of the vapor retarder sufficiently in advance of concrete placement such that deficiencies may be corrected before concrete is placed.

**ASTM E1643, Section 8.2** – Repair damaged areas prior to concrete placement with vapor retarder material lapped and sealed minimum of 6 in. (150 mm) beyond damaged area or as instructed by manufacturer. These instructions are to be used as guidelines; therefore, it is important to always consult the project team with regards to varying structural designs.

## **Not sure which product is right for your job?**

**Our experts can  
help—fast. Schedule a  
15-Minute Consultation**



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