

**1.0 PRODUCT NAME**

**NU-AGE FILM 4+**  
High Performance  
Vapor Retarder

**2.0 MANUFACTURER**



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**3.0 PRODUCT DESCRIPTION**

3.1 Basic Use:

**NU-AGE FILM 4+** is a uniquely enhanced high performance vapor retarder that exceeds performance properties of conventional single layer polyethylene sheeting. **NU-AGE FILM 4+** surpasses 4-mil polyethylene sheeting requirements outlined in ASTM D 4397. **NU-AGE FILM 4+** is used as a multipurpose high performance vapor retarder for numerous construction, industrial and agricultural applications. **NU-AGE FILM 4+** delivers excellent impact resistance, tensile strength and elongation for demanding vapor retarder and protective covering applications.

3.2 Composition & Materials:

**NU-AGE FILM 4+** is a tri-layer extruded film manufactured and engineered using a distinct virgin resin formulation. The tri-layer extrusion uses separate extruders to produce different layers of polymers. The layers join together, in the liquid state, just before they are extruded. The tri-layer manufacturing is desirable as it takes the best properties of different resins and links them together. The film structure is then engineered to perform better than it's individual parts.

**NU-AGE FILM 4+** is a lighter weight roll with increased product performance all while maintaining long term stability.

3.3 Product Dimensions & Weight:

**NU-AGE FILM 4+** is available in roll sizes ranging from 8 to 20 feet wide by 100 feet in length. Special roll lengths are available upon request. **NU-AGE FILM 4+** weighs approximately 6.24 pounds per 1,000 square feet at .0013 inches (33.02 μ) thick.

3.4 Benefits:

- Unrivaled material solution
- Made from premium grade virgin resin
- Enhanced performance
- State-of-the-art: one of a kind technology
- Lighter weight for ease of installation
- Outperforms 4-mil poly per ASTM D 4397
- Multi-use for construction, industrial & agricultural applications
- Superior value without forfeiting quality

**4.0 TECHNICAL DATA**

4.1 Applicable Standards

- **ASTM D 4397** Standard Specification for Polyethylene Sheeting for Construction, Industrial, and Agricultural Applications
- **ASTM D 2103** Standard Specification for Polyethylene Film and Sheeting
- **ASTM D 1709** Standard Test Methods for Impact Resistance of Plastic Film by the Free-Falling Dart Method
- **ASTM D 882** Standard Test Method for Tensile Properties of Thin Plastic Sheeting
- **ASTM F 1249** Standard Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor
- **ASTM E 96** Standard Test Methods for Water Vapor Transmission of Materials
- **ASTM E 1643** Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs

Note: All **NU-AGE FILMS** are tested by accredited, third-party testing agencies following stringent industry guidelines and testing standards.

PROPERTIES	TEST METHOD	NU-AGE FILM 4+	
<i>Test Procedure - Independent Test Facility</i>	<i>Applicable Standards</i>	<i>IP Units</i>	<i>SI Units</i>
Thickness		.0013 in	33.02 μ
Performance Classification	ASTM D 4397	EXCEEDS 4-MIL	
Film Type	ASTM D 2103	TYPE 15232	
Puncture Resistance	ASTM D 1709 Method A	211 grams	
Tensile Strength	ASTM D 882	3,550 PSI (LD) 3,850 PSI (CD)	24.5 MPa 26.5 MPa
Elongation	ASTM D 882	610% (LD), 710% (CD)	
Water Vapor Permeance	ASTM E 96 Method E	0.19 perms*	0.013 perms**
Chemical Resistance		Unaffected	Unaffected
Life Expectancy		Indefinite	Indefinite

\*grains/(ft<sup>2</sup>\*hr\*inHg)

\*\*g/(m<sup>2</sup>\*24hr\*mmHg)