



VYVAP-NW

PP Nonwoven Laminated Vapor Barrier Membrane

DESCRIPTION

VYVAP-NW is a vapor control membrane composed of polypropylene (PP) nonwoven fabric laminated with a functional polymer coating layer. It is designed to provide effective vapor control and moisture protection within building envelope systems.

The composite structure combines the mechanical strength of nonwoven fabric with the low permeability of the laminated layer, ensuring durability, flexibility, and consistent performance across a range of applications. VYVAP-NW is available in multiple grammage options to meet different project requirements.

BENEFITS

- **Reliable Vapor Control Performance**

Effectively reduces water vapor transmission to protect insulation and structural elements.

- **Multi-Layer Composite Structure**

Combines strength and flexibility for stable long-term performance.

- **Multiple Grammage Options**

Available in different weights to suit various application needs.

- **Good Mechanical Strength**

Resistant to tearing and puncture during installation.

- **Easy Installation**

Lightweight and flexible, suitable for fast on-site application.

APPLICATIONS

- **Roofing Systems**

Vapor control layer for insulated flat and pitched roofs.

- **Wall Systems**

Internal vapor barrier for external wall assemblies.

- **Steel Structure Buildings**

Widely used in metal buildings and industrial facilities.

- **Floor & Slab Applications**

Used as a vapor barrier under concrete slabs.

INSTALLATION

1. **Surface Preparation**

Ensure the substrate is clean, dry, and free of dust or sharp objects.

2. **Application**

Roll out the membrane and fix it mechanically or by suitable methods depending on system design.

3. **Overlap**

Side laps ≥ 50 mm, end laps ≥ 80 mm.

4. **Sealing**

Use compatible tapes (e.g., butyl tape) to seal overlaps and ensure airtightness.

STORAGE & SHELF LIFE

- Store in a dry, ventilated area, away from direct sunlight and heat sources.
- 12 months in original unopened packaging.

DIMENSIONS & PACKAGING

Parameter	Value
Density	80~300 g/m ²
Width	1500 mm
Length	50~100 m
Color (surface)	White or customized
Packaging	Rolls

TECHNICAL DATA

Property	Value(80g/m2)	Value(220g/m2)	Test Method
Maximum tensile force, MD/CD (N/50mm)	≥ 80/50	≥ 260/200	EN 12311-2:2000
Elongation at braeak, MD/CD (%)	≥ 30/30	≥ 30/30	EN 12311-2:2000
Watertightness	1000mm water column, no leakage for 2 hours	1500mm water column, no leakage for 2 hours	EN 1928:2000
Tear strength (Nail shank), MD/CD (N)	≥ 50/50	≥ 200/200	EN 12310-1:1999
Cold bending	-30°C, no crack	-30°C, no crack	EN 495-5:2000
Water vapor permeance, 23°C, 90% humidity difference (g/m ² ,24h)	≤ 10	≤ 5	ISO 12572: 2001

