



VYGEO-PVC

PVC Geomembrane Liner

DESCRIPTION

VYGEO-PVC is a high-performance flexible polyvinyl chloride (PVC) geomembrane liner designed for waterproofing and containment applications. It is manufactured using premium-grade PVC resin, plasticizers, stabilizers, and reinforcing components (optional), delivering excellent flexibility, durability, and long-term performance.

The membrane provides reliable impermeability and is suitable for complex geometries due to its superior elongation and weldability.

BENEFITS

- Excellent flexibility for irregular substrates
- High elongation and crack-bridging capability
- Superior weldability (hot air / wedge welding)
- Good chemical and root resistance
- Strong resistance to aging and UV (customizable)
- Available in reinforced and non-reinforced types
- Easy installation and repair

APPLICATIONS

- Landfill lining systems
- Water reservoirs and canals
- Tunnels and underground structures
- Mining and tailing ponds
- Artificial lakes and landscaping ponds
- Secondary containment systems

INSTALLATION

- Substrate must be smooth, compacted, and free of sharp objects
- Panels are installed by loose laying or anchoring
- Seaming by hot wedge welding or hot air welding
- Overlap width: typically 80–120 mm
- All seams must be tested (air channel / vacuum testing)
- Protective geotextile recommended where required

STORAGE & SHELF LIFE

- Store in dry, shaded conditions
- Protect from UV exposure before installation
- Avoid stacking beyond recommended height
- Shelf life: 24 months



DIMENSIONS & PACKAGING

Parameter	Value
Thickness	2.0 mm
Width	2 m
Length	20 m
Available colors	Light green or white or yellow (surface)/ Black (underside)
Packaging	Rolls on pallet

TECHNICAL DATA

Property	Value (non-reinforced)	Test Method
Appearance	The signal layer is extruded and homogeneous with the bottom layer. The product is free from blisters, cracks and holes.	EN 1850-2
Tensile strength (N/mm ²) Longitudinal Trasversal Elongation at break (%) Longitudinal Trasversal	 ≥ 10 ≥ 10 ≥ 200 ≥ 200	EN 1850-2
Static puncture test (CBR method) (kN)	> 2.5	EN ISO 12236
Behaviour under hydrostatic pressure: - 5 bar/72 hours or 10 bar/24 hours	No leakage	EN 1928 meth. B
Impact resistance on rigid support (mm)	≥ 900	EN 12691 meth.A
Cold bending/low temperature behaviour	Without cracks at -25°C	EN 495-5

