(45) Yosaite Materials

PVC (Polyvinyl Chloride) Waterproof Membrane

Description

The PVC (Polyvinyl Chloride) waterproofing membrane is formulated by using high quality PVC resin as main ingredient and co-extruding with the plasticizer, antioxidant agents, UV light absorbents and other auxiliaries. The high performance membrane is available in variety of colors, reinforced by a high-strength inserted polyester mesh or fabric backing or non-reinforcement, provides a long-lasting durability and waterproof protectiOn.

Features

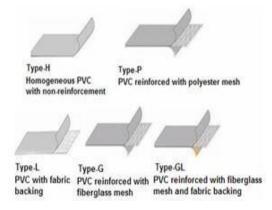
- Long service life, at least 20 years on roof, 50 years underground
- High tensile strength and cold flexibility, good elongation, dimension stability and wind loads
- High reflectivity, energy efficient; Resistant to UV and oxidation and weatherproof
- Strong adaptability to deformation and cracks
- Self-extinguishing and chemical resistance
- High puncture and tear resistance, low weight
- Weldability and easy installation

Thickness, mm 2.0 1.2, 1.5, 1.8, Width. m 1.0, 2.0, 2.05 Length, m 20m or customized Homogeneous PVC membrane with non-reinforcement H: L: PVC membrane with fabric backing Туре P: PVC membrane reinforced with polyester mesh G: PVC membrane reinforced with fiberglass mesh GL: PVC membrane reinforced by fiberglass and fabric backing

Type and Specification

Uses

- Roofs, underground structures of residential and commercial buildings
- Parking lots, reservoirs, swimming pools, ٠ sewage treatment plants
- Highway, airports, railway, bridges, tunnels



No	Items			Index						
INO				Н	L	Р	G	GL		
1	Tensile property		Maximum tension, N/cm≥	-	120	250	-	120		
			Tensile strength, MPa≥	10.0	-	-	10.0	-		
			Elongation at maximum tension, $\% \ge$	-	-	15	-	-		
			Elongation at break, %≥	200	150	-	200	100		
2	Heat treatme	Heat treatment dimensional change, % ≤			1.0	0.5	0.1	0.1		
3	Heat aging (80 ℃)	Test phenomenon, 672h		No blister, no crack, no cohesion, no delaminating, no void						
		Retention of maximum tension, %≥		-	85	85	-	85		
		Retention of tensile strength, %≥		85	-	-	85	-		
		Retention of elongation at maximum tension, %≥			-	80	-	-		
		Retent	Retention of elongation at break, %≥		80	-	80	80		
		Low temperature bending, -20 °C		No crack						
4	Low temperature bending, -25°C				No crack					
5	Water imperr	Impermeable								

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6	Angle tearing	g strength, N/mm≥	:	50	-	-	50	-
7	Trapezoidal	tearing strength,	N/mm≥	-	150	250	-	220
8	Water absorption, 70 ºC*168h After immersed in water,%≤ After drying in air, %≥		4.0					
			-0.40					
9	Impact resista	No leakage						
10	Anti static loa	-	-	20kg, no leakage				
11	Seam peel s	4.0 or mem damaged	Ibrane	3.0				
12	Chemical Resistance	Test phenomenon		No blister, no crack, no cohesion, no delaminating, no void				
		Retention of ma	-	85	85	-	85	
		Retention of ten	85	-	-	85	-	
		Retention of elon	-	-	80	-	-	
		Retention of elo	80	80	-	80	80	
		Low temperature	e bending	-20 °C, No crack				
13	Accelerated weathering	Test phenomene	No blister, no crack, no cohesion, no delaminating, no void					
		Retention of ma	-	85	85	-	85	
		Retention of ten	85	-	-	85	-	
		Retention of elong	-	-	80	-	-	
		Retention of elo	82	80	-	80	80	
		Low temperature	e bending, -20 °C	No crack				

Packing

12-24 rolls/pallet depending on the thickness and length of the roll.

Application instructions

According to characteristics of different projects waterproof layer design, offering 3 installation options as bellows:

• **Mechanically fastened system:** Suitable for roofs with limited load bearing capacity, e.g. large gymnasium roofs, steel structure roofs, recover and waterproof systems for both new and existing building as well as underground projects, sidewall and vault cave tunnel etc.

• **Cold adhered:** Any roofs with irregular shape and with limited load bearing capacity.

• **Ballasted:** Suitable for a wide variety of industrial and civil projects and public building

Surface preparation: Substrates need to be clean, smooth, dry (Moisture <9%), no grit and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5mm wide, shall be properly filled with an acceptable fill material and level it.

Placement of membrane: Pave the PVC membrane on the substrate, exhaust and compaction; Overlapping width between membrane in longitudinal should be more than 50mm; Hot-air welding is adopted for joint and detail treatment

Storage

Store away from sources of punctures and physical damage. Keep dry and store away from ignition sources and open flame.

Shelf Life: Unlimited

Safety precautions

Do not work in a rainy or snowy day, or heavy wind (above 5 grade). Unsuitable for construction when ambient temperature below 0°C. If it rains or snows in the construction, protective action to the laid membrane is a must.

During installation, exercise extreme caution when working with open flame.

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

Safety protection facilities and articles shall be well prepared, fire-fighting equipment shall be deployed according to regulations.

Membranes are slippery when wet. Use caution when walking on wet membranes.

Use proper stacking procedures to ensure sufficient stability of the materials.