PVC WATERPROOF MEMBRANE

Description

Polyvinyl chloride (PVC) waterproof membrane is a polymer waterproof membrane with superior performance, using polyvinyl chloride resin as the main raw material. Adding various special additives and anti-aging components, it is produced with advanced equipment and advanced technology. The overlapping seams adopt hot melt welding process to make the overlapping joints integrated with each other and more reliable.

Usage

- Roof waterproofing projects
- Underground engineering roof waterproofing

Advantages

- High tensile strength, high elongation, and small dimensional changes during heat treatment.
- Good low temperature flexibility and good adaptability to changes in environmental temperature differences.
- Long service life and aging resistance.
- Good resistance to root penetration and perforation resistance.
- Strong chemical corrosion resistance, suitable for waterproofing in various special occasions.
- Convenient construction, welding, solid and reliable, environmentally friendly and no pollution.

Application

- surface construction overlap (Using large hot air welding machine)

- Overlapping of other parts (small hot air welding machine)

- Processing of pipe nodes out of roof

Technical Index

NO.	Items		Index				
			H	L	P	G	GL
1	Resin layer thickness on the middle tire base / mm		—		0.4		
2	tensile properties	maximum tensile force/ (N/cm)	—	120	250	—	120
		tensile strength /MPa	10	—	—	10	—
		Elongation at maximum tensile force /%	—	—	15	—	—
		elongation at break /%	200	150	—	200	100
3	Heat treatment dimensional change rate / %		2	1	0.5	0.1	0.1
4	Low-Temperature Flexibility		—25 °C no crack				
5	Impermeability		0.3 MPa,2h impermeable				
6	Impact resistance		0.5 kg・m, impermeable				
7	Resistance to static loads		—	—	20kg impermeable		
8	Seam peel strength/（N/mm)		4.0 or membr-ane damaged		3		
9	perpendicular tear strength /（N/mm)		50	—	—	50	—
10	Trapezoidal tear strength /N		—	150	250	—	220
11	water absorption rate (70°C,168 h)/%	After soaked in water	4				
		After airing	-0.4				
12	heat aging (80 °C)	Time /h	672				
		Outlook	No bubbles, cracks, delamination, adhesion, or holes				
		Maximum tensile force retention rate/%	—	85	85	—	85
		Tensile strength retention rate/%	85	—	—	85	—
		Elongation retention at maximum tensile force/%	—	—	80	—	—
		Elongation at break /%	80	80	—	80	80
		Low-temperature flexibility	—20°C, no crack				

13	chemical resistance	Outlook	No bubbles, cracks, delamination, adhesion, or holes				
		Maximum tensile force retention rate/%	—	85	85	—	85
		Tensile strength retention rate/%	85	—	—	85	—
		Elongation retention at maximum tensile force/%	—	—	80	—	—
		Elongation at break /%	80	80	—	80	80
		Low-temperature flexibility	—20°C no crack				
14	Accelerated aging under artificial climate conditions	Time /h	1500				
		Outlook	No bubbles, cracks, delamination, adhesion, or holes				
		Maximum tensile force retention rate/%	—	85	85	—	85
		Tensile strength retention rate/%	85	—	—	85	—
		Elongation retention at maximum tensile force/%	—	—	80	—	—
		Elongation at break /%	80	80	—	80	80
		Low-temperature flexibility	—20°C, no crack				

Note:1. Resistance to static loads is only required for roll materials used for roof covering.
2.The artificial climate accelerated aging time for single-layer rolled roofing products is 2500 hours.
3.Membrane not exposed are not required to undergo accelerated aging testing under artificial climatic conditions.

Technical support

For more information, alternative applications or alternative proposals,please contact our Technical Department at the email address below.

Storage and transportation

Transportation: The product is generally non-flammable and non-explosive material and can be transported as general cargo. However, during transportation, it should be protected from freezing, rain, direct sunlight, crushing, and collision to ensure the packaging remains intact.

Storage: When storing, ensure proper ventilation, dry conditions, and protection from direct sunlight. The storage temperature should not be below 0°C, and the product should not be stacked more than three layers high.

Contact us

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