

● FLB-311/312 Polyethylene (propylene / polyester) composite waterproof membrane



Product introduction

FLB-311/312 Polyethylene (propylene/polyester) composite waterproof membrane is made of polyethylene, high-strength (propylene/polyester) non-woven fabric, ultraviolet light-shielding agent, anti-aging agent and other macromolecule raw materials, which have undergone physical and chemical changes. The automated professional production line is made by a single extrusion molding process. The surface of the membrane are reinforced adhesive layers, and the middle of the membrane is composed of a waterproof layer and an anti-aging layer.

Features and Benefits

- ◆ FLB-311/312 Polyethylene (propylene/polyester) composite waterproof membrane meets the requirements of GB18173.1-2012 "Polymer waterproof material first part sheet" resin polyethylene FS2 requirements. Anti-aging, anti-oxidation, anti-corrosion, good flexibility, easy bending does not break, tensile, puncture resistance, play a role in blocking root thorn. Low temperature up to -40° C without cracks, high temperature up to +100° C without distortion.
- ◆ This product is a green environmental product, non-toxic, odorless, non-polluting, all meet the index requirements in GB/T17219-1998 "Safety Evaluation Standard for Drinking Water Distribution Equipment and Protective Materials for Drinking Water".
- ◆ The construction on the wet base surface can be carried out without water or clear water after the rain stops. The construction speed is fast and the efficiency is high.
- ◆ The polyhedral cement adhesive used in conjunction with this product (adhesive powder for special purpose powdered paste) not only has adhesive properties
- ◆ Waterproof performance, can seal the base of the hair hole, play a role in blocking water, but also can play a role in waterproof and leveling layer.
- ◆ This product construction is simple, quick, waterproof effect is good, save time, save labor.

Scope of application

- ◆ The product is widely used in various types of industrial, civil construction roof, basement, kitchen and toilet, storage tanks, water conservancy, dams, mines, tunnels, bridges and culverts, subways, metallurgical and chemical impervious, moisture-proof, waterproof projects.

Performance Index

Execution Standard: GB18173.1-2012

No.	Item	Index (FS2)
1	Fracture tensile strength/ (N/cm)	temperature (23℃) ≥
		60℃ ≥
2	elongation at break %	normal atmospheric temperature (23℃) ≥
		Low temperature-20℃ ≥
3	Tearing strength/N	≥
4	watertightness, (0.3Mpa) 30min	elongate
		shrink
5	Low temperature bending/℃	-20℃ No crack
6	Heating and expansion mm	Tensile strength retention at break/%
		Tensile strength retention rate/%
7	air ageing (80℃*168h)	Tensile strength retention at break/%
		Tensile strength retention rate/%
8	Alkali resistance	Tensile strength retention at break/%
		Tensile strength retention rate/%
9	Ozone aging (40℃*168h) , 200*10-8	Elongation 20%
10	Artificial climate aging	Tensile strength retention at break/%
		Tensile strength retention rate/%
11	Adhesive peel strength (sheets - sheets)	Standard test conditions/ (N/cm)
		water immersion retention rate (23℃*168h) /% ≥
12	Composite strength (surface and base)/MPa	0.8

Note: When the overall thickness is less than 1.0mm, the elongation at break shall not be less than 50%, and the other properties shall be more than 80%.

Transportation & storage

- ◆ The packing should be kept intact and free from damage during storage. The warranty period is one year without damage.
- ◆ The storage height must not exceed five packaging membranes heights and be placed on a ventilated, cool, and dry horizontal floor. No contact with acids, alkalis, oils, organic solvents, etc.