SF CHEN BROTHERS

Waterproofing Membrane

Since its establishment in 1987, we have served customers around the world for 30 years. We have an experienced R&D technical team and a highly productive management department. We continue to innovate products, optimize manufacturing processes and quality control as our purpose to make our products meet customer requirements. In addition, it can be closer to everyone's living environment and bring consumers a convenient and comfortable environment. Environmental protection and sustainable development are the primary d rection of an enterprise.

Upholding the goal of being environmentally friendly, all management operations are directed towards the goals of preventing pollution, reducing waste, and saving resources. Since its establishment, it has continued to develop and innovate, trying to meet the real needs of customers with better services, more advanced manufacturing processes, better quality, and more environmentally friendly materials in the industry.

Waterproofing Membrane

Excellent weather resistance and tensile strength
Easy to construction and maintenance
TPO/OBC/PVC/PE

Specifications

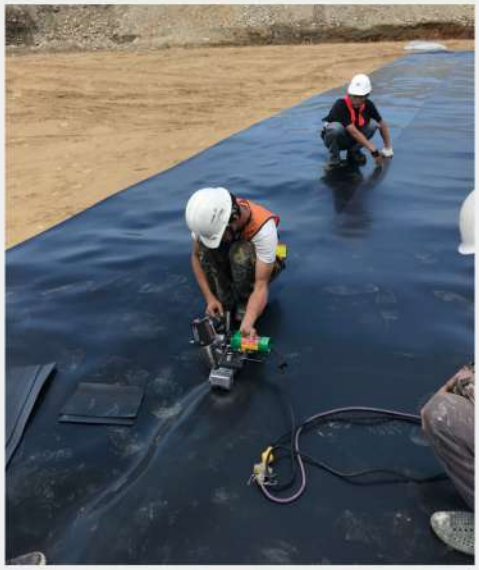
PVC Waterproofing Membrane

PVC Waterproofing membrane is a modern roofing and insulating solution. Made of polyvinyl chloride (PVC), it is known for its unique combination of strength and flexibility, high resistance to tensile load, UV radiation, precipitation and other forms of material stress.

Thickness	Width	Spec.	Length	Remarks
1.0/1.5/2.0 mm	2.0 m	Single layer	15-25 m / roll	Black / Grey
1.5m/2.0 mm	2.0 m	Double layer	15-25 m / roll	Black / Grey
1.5m/2.0 mm	2.0 m	Double layer and PET mesh	15-25 m / roll	PET Mesh / glassfiber

APPLICATION

Roofing of commercial and industrial buildings
Artificial ponds
Swimming pools
Water storage systems
Underground structure, tunnel contructions
Biogas bag



TPO Waterproofing Membrane

TPO (thermoplastic olefin) is a combination of polypropylene based plastic and ethylenepropylene rubber, that are polymerized together. TPO membranes reflect UV radiation and therefore keep the surface of the roof cool during summber months.

Thickness	Width	Spec.	Length	Remarks
1.5/2.0 mm	2 m	Single layer	20-30 m / roll	Black / Grey
2.0 mm	1.5 m / 2m	Double layer	20-30 m / roll	Black / Grey
2.0 mm	1.5 m / 2m	Double layer and PET mesh	20-30 m / roll	PET Mesh / glassfiber

APPLICATION

Roof of commercial, industrial and residential buildings
Ornamental usage: Air garden, Artificial ponds
Water storage system
Reservoir construction: Pisciculture ponds, Rainwater collection systems

PE Waterproofing Membrane

Polyethylene (PE) is a thermoplastic polymer produced by the polymerization of ethylene. The material has excellent anti-seepage, anticorrosion properties, chemical stability, good processability. It has been widely used in water conservancy projects, pipelines, reservoirs, sewage tanks, garbage dumps etc.

Thickness	Width	Spec.	Length	Remarks
1.0 mm	2.0 m	Single layer	20-30 m / roll	Black
1.5 / 2.0 mm	2.0 m	Single layer	20-30 m / roll	Black

APPLICATION

Water tanks, reservoirs

Underground constructions

Landfill liner

Root protection barrier on roofs

Agricultural membranes

OBC Waterproofing Membrane

Olefin Block Copolymers (OBC) are olefinic thermoplastic elastomers consisting of alternating hard (highly rigid) and soft (elastomeric) segments. OBC is used for its high temperature tolerance while maintaining its flexible

Thickness	Width	Length	Surface	Remarks
1.0 / 1.5 mm	2.0 m	20-30 m / roll	Smooth	Black / White

APPLICATION

Artificial ponds
Water storage system,
water tank reservoirs
Roofing & Waterproofing
Underground constructions

FEATURES / STANDARD

PVC WATERPROOFING MEMBRANE

Item		Unit	Standard	Testing method
Stretch ability	Tensile strength (longitudinal)	N/cm^2	1000 and above	CNS 10145(2016) (Homogeneouus flakes)
	Tensile strength (lateral)	N/cm^2	1000 and above	
	Elongation (longitudinal)	%	200 and above	
	Elongation (lateral)	%	200 and above	
Tearing	Right-angle tear strength(longitudinal)	N/cm	400 and above	
	Right-angle tear strength(lateral)	N/cm	400 and above	
Description: 1. Test environment : temperature 20±2°C , humidity 65±20%RH。				

TPO WATERPROOFING MEMBRANE

Item		Unit	Standard	Testing method
Stretch ability	Tensile strength (longitudinal)	N/cm^2	750 and above	CNS 10145(2016) (Homogeneouus flakes)
	Tensile strength (lateral)	N/cm^2	750 and above	
	Elongation (longitudinal)	%	450 and above	
	Elongation (lateral)	%	450 and above	
Tearing	Right-angle tear strength(longitudinal)	N/cm	400 and above	
	Right-angle tear strength(lateral)	N/cm	400 and above	
Description: 1. Test environment : temperature 20±2°C , humidity 65±20%RH。				

PVC WATERPROOFING MEMBRANE (DIN)

Item	Standard	Testing method
Thickness	2.0mm	DIN 53370
Tensile strength	15 N/mm^2 min	DIN 53455
Elongation at break	250 % min	DIN 53455
compressive strength (20% strain)	2.5 N/mm^2 min (Fold a 10 mm cube sample with side length)	DIN 53454
Crack resistance	100 N/mm min	DIN 53363
Water resistance	Good 10 bar/10 hours	DIN 16726
Joint tensile strength	13.5 N/mm^2 min	DIN 16726
Heat resistance	±2% max	DIN 16726
Water absorption	1% max	DIN 53495
Acid and alkali resistance (28 days)	Tensile strength loss : ±20% max	DIN 16726
	Elongation at break : ±20% max	
Fire resistance	Non-flammable	DIN 4102/1

PVC WITH MESH WATERPROOFING MEMBRANE

Item		Unit	Standard	Testing method
Stretch ability	Tensile strength (longitudinal)	N/cm	240 and above	CNS 10145(2016) (Reinforced compound type)
	Tensile strength (lateral)	N/cm	240 and above	
	Elongation (longitudinal)	%	15 and above	
	Elongation (lateral)	%	15 and above	
Tearing	Right-angle tear strength(longitudinal)	N	50 and above	
	Right-angle tear strength(lateral)	N	50 and above	
Description: 1. Test environment : temperature 20±2°C , humidity 65±20%RH。				

TPO WITH MESH WATERPROOFING MEMBRANE

Item		Unit	Standard	Testing method
Stretch ability	Tensile strength (longitudinal)	N/cm	240 and above	CNS 10145(2016) (Reinforced compound type)
	Tensile strength (lateral)	N/cm	240 and above	
	Elongation (longitudinal)	%	15 and above	
	Elongation (lateral)	%	15 and above	
Description: 1. Test environment : temperature 20±2°C , humidity 65±20%RH。				

OBC WATERPROOFING MEMBRANE

Item		Unit	Standard	Testing method
Stretch ability	Tensile strength (longitudinal)	N/cm^2	750 and above	CNS 10145(2016) (Homogeneous flakes, thermoplastic elastomer system)
	Tensile strength (lateral)	N/cm^2	750 and above	
	Elongation (longitudinal)	%	450 and above	
	Elongation (lateral)	%	450 and above	
Tearing	Right-angle tear strength(longitudinal)	N/cm	400 and above	
	Right-angle tear strength(lateral)	N/cm	400 and above	
Description: 1. Test environment : temperature 20±2°C , humidity 65±20%RH。				

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