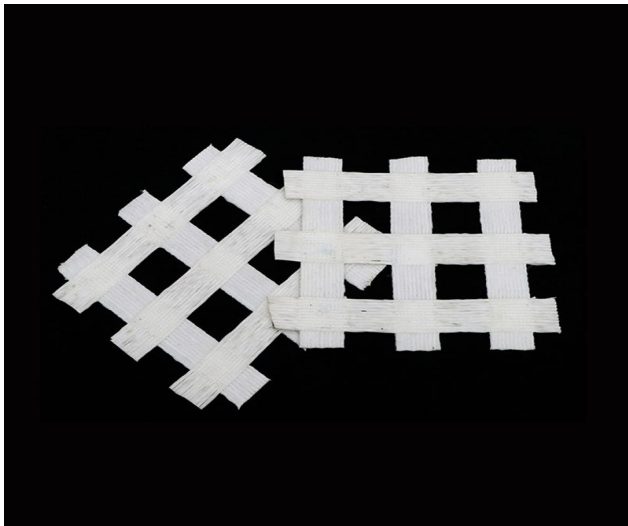
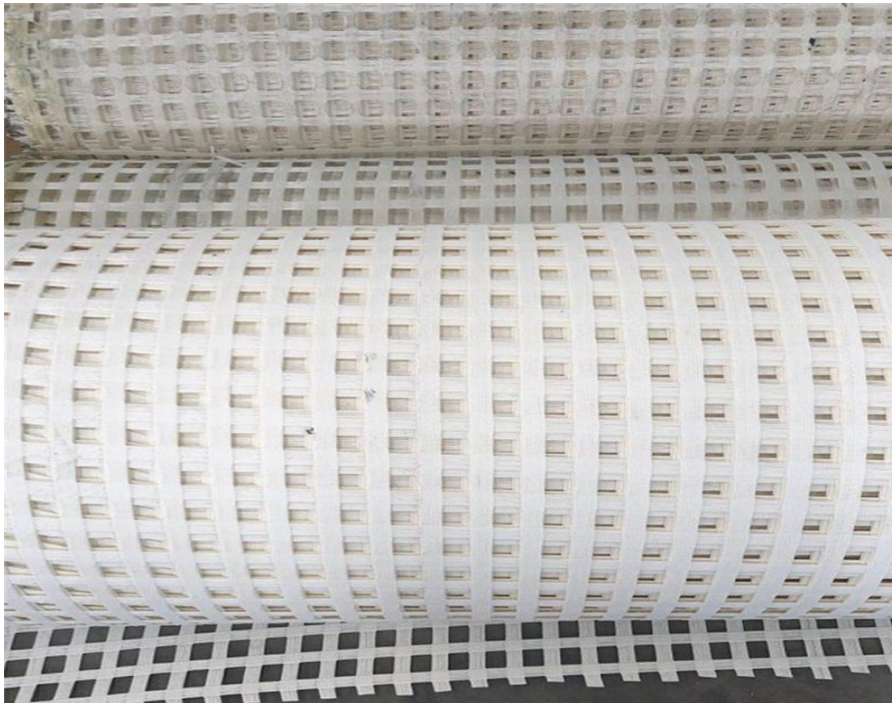


High-strength Flame-retardant Polyester Mining Geogrid

High-strength flame-retardant polyester fiber mesh for mining is made of high-strength polyester yarns and is knitted and coated. It is widely used in false roof support of underground coal mines, tunnel protection and tunnel support reinforcement. Compared with metal mesh, it has the characteristics of light weight, high strength, flame retardant, antistatic, corrosion resistance, etc. It is easy to install and use, and is the best substitute for metal mesh. In addition to the above advantages, more importantly, it has good gangue blocking effect, high withdrawal speed, safety and reliability, and also saves valuable time for construction.



This product has high strength, light weight, easy construction, acid and alkali resistance, corrosion resistance, high and low temperature resistance, anti-aging, long service life, flame retardant, antistatic and other properties. It can be widely used in coal mine unmined moving face removal, coal mining face false roof support engineering, tunneling face protection and roof protection engineering, end-to-end end-end support, coal mine anchor shot blasting tunnels, temporary and permanent support of tunnels, etc. The product is strong and soft, light in weight, easy to lay and has high tensile strength.



[HIGH-STRENGTH FLAME-RETARDANT POLYESTER MINING GEOGRID]

High-strength flame-retardant polyester fiber mesh has the characteristics of high strength, light weight, easy construction, acid and alkali resistance, corrosion resistance, high and low temperature resistance, anti-aging, long service life, flame retardant, and anti-aging. It can be widely used in coal mine unmined moving face removal, coal mining face false roof support engineering, tunneling face protection and roof protection engineering, end-to-end end-end support, coal mine anchor shot blasting tunnels, temporary and permanent support of tunnels, etc. The product is strong and soft, light in weight, easy to lay and has high tensile strength.



HIGH-STRENGTH FLAME-RETARDANT POLYESTER MINING GEOGRID Features:

- When using as a false roof for layered mining of thick coal seams, use high-modulus, high-strength polyester filaments to be bundled and woven into a matrix. The surface of the machine body is coated with a layer of flame-retardant and static-conducting coating. The shearer can directly hinge It breaks without causing sparks, reducing the occurrence of underground fires and gas explosions
- ecause this component is high-modulus, high-strength polyester filament, it is light and easy to transport and construct.
- It is suitable for the special conditions of coal mines and is resistant to acid and alkali corrosion and aging, so it has a long service life and can reduce safety hazards and production costs.
- It is not easy to scratch workers, which facilitates construction and improves work efficiency.
- Decrease underlayer thickness and save manufacturing cost.
- This product also has good properties of flame retardant and static electricity. Through the technical treatment of the coating, it has double anti-static indicators.

Geogrid Products: High-strength Flame-retardant Polyester Mining Geogrid

APPLICATION

High-strength flame-retardant polyester fiber mesh has high strength, light weight, easy construction, acid and alkali resistance, corrosion resistance, high and low temperature resistance, anti-aging, long service life, flame retardant, antistatic and other properties. It can be widely used in coal mine unmined moving face removal, coal mining face false roof support engineering, tunneling face protection and roof protection engineering, end-to-end end-end support, coal mine anchor shot blasting tunnels, temporary and permanent support of tunnels, etc.

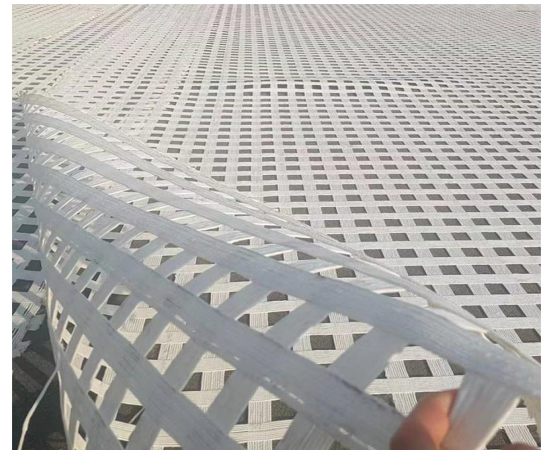
SPECIFICATIONS OF HIGH-STRENGTH FLAME-RETARDANT POLYESTER MINING GEOGRID

Item	PET 50- 50	PET 100- 100	PET 200- 200	PET 600- 600	PET 800- 800	PET 1000- 1000	PET 1100- 1100	PET 1200- 1200	
Grid size(mm)	25.4*25.4, 50.8X50.8, 76.2X76.2								
Mesh size(mm)	20X20 40X40 50X50								
breaking strength≥(kN/M)	Warp direction	50	100	200	600	800	1000	1100	1200
	Across warp	50	100	200	600	800	1000	1100	1200
Elongation at break≤ (%)	25								
Resistance of the product's surface<(Ω)	1.0X10 ⁹								
Flameless Quenching time (≤s)	10s								
Width(m)	1-6								

ADVANTAGE OF HIGH-STRENGTH FLAME-RETARDANT POLYESTER MINING GEOGRID

This product has high strength, light weight, easy construction, acid and alkali resistance, corrosion resistance, high and low temperature resistance, anti-aging, long service life, flame retardant, antistatic and other properties. It can be widely used in coal mine unmined moving face removal, coal mining face false roof support engineering, tunneling face protection and roof protection engineering, end-to-end end-end support, coal mine anchor shot blasting tunnels, temporary and permanent support of tunnels, etc

1. As a false roof for layered mining of thick coal seams, high-modulus, high-strength polyester filaments are bundled and woven into a matrix, and a layer of flame-retardant and electrostatically conductive coating is coated on the surface of the body. The shearer can directly hinge It breaks without causing sparks, reducing the occurrence of underground fires and gas explosions.
2. Because this component is high-modulus, high-strength polyester filament, it is light and easy to transport and construct.
3. It is suitable for the special conditions of coal mines and is resistant to acid and alkali corrosion and aging, so it has a long service life and can reduce safety hazards and production costs.
4. It is not easy to scratch workers, which facilitates construction and improves work efficiency.
5. Strong, soft, light weight and high tensile strength.
6. This product also has good properties of flame retardant and static electricity. Through the technical treatment of the coating, it has double anti-static indicators.



PROJECTS CASE OF HIGH-STRENGTH FLAME-RETARDANT POLYESTER MINING GEOGRID



[Tunnel protection in Uganda]



[False roof support for coal mine working face in Ethiopia]

HIGH-STRENGTH FLAME-RETARDANT POLYESTER MINING GEOGRID CONSTRUCTION

Construction method of geogrid :

- The paving surface of the geogrid should be relatively flat. After the paving layer has passed the acceptance inspection, in order to prevent longitudinal skew, first draw a white line or a hanging line on the paving layer according to the width, and then the paving can begin. Fix the ends of the grille with iron nails (8 nails per meter wide, fixed at even distances).
- After fixing the ends of the grille, use a paving machine to slowly pull the grille forward. Manually tighten and straighten it every 10 meters until one roll of grille is laid, and then lay the next roll. Volume, the operation is the same as before.
- After paving one roll, use a 6T-10T roller to roll it from the starting point in the forward direction. (If it is paved on the mid-surface layer and leveling layer, it is better to use a steel roller roller; if the grid is laid directly on the concrete pavement, it is better to use a rubber roller roller.)
- Joint paving: The unit of roll length is used as the paving section length. After the section length that should be paved with grating is covered, the overall paving quality is checked again, and then the next section is paved.
- When paving the next section, the grid and grating can be overlapped with a length of 10-15CM and fixed with iron nails or wooden wedges before continuing to pave the second section in the forward direction. By analogy, the operation requirements are the same as before.

It is widely used in hypothetical support of underground working faces in coal mines and metal mines, mutual support of tunnels and permanent tunnel support reinforcement.

1. Slope Reinforcement- embankments over soft soils, extra-steep earthwork slopes, landfill liner systems, and industrial and contaminated land reclamation.

2. Base Reinforcement- foundations of roadbeds, parking lots, railroad tracks beds, air ports runways, permanent unpaved roads, construction haul roads.

3. Wall Reinforcement- retaining walls, sea walls, airport noise barriers, and bridge supports.

4. Berm Reinforcement - spillway channels for earthen dams, levees, and waste contaminated ponds, banks for earthen canals and waterways.

