TECHNICAL DATA SHEET

FLOREY® Polypropylene Mesh Fiber

Polypropylene Mesh Fiber

Fiber for Concrete and Mortar Reinforcement

Supplier: Luoyang Florey Import and Export Co., Ltd.

Website: www.floreyconcrete.com

Product Description

Polypropylene mesh fiber is a type of fiber made by special processing and treatment of polypropylene particles as raw materials, interweaving bundles into a mesh.

Applications

1. Projects with high crack resistance requirements, such as concrete pavement, bridge deck, airport runway, and factory floor.
2. Projects that use special construction methods for walls, roofs, reservoirs, and other structures in tunnels and mines.

Product Specification

Item	Specification
Texture of material	Polypropylene
Density	0.91g/cm³
Tensile strength	≥450 MPa
Elastic modulus	≥3.5 GPa
Melting point	165℃
Elongation at break	<30%

Guidelines for Use

• General crack control (slabs, floors, walls, ordinary structural members): 0.9 kg/m³ (preferred dosage), used to suppress early-age plastic shrinkage cracking; suitable for 19 mm fibers.
• Medium to high crack resistance / impermeability (basements, water tanks, roofs, bridge deck pavements): 1.2–1.5 kg/m³, balancing crack control and workability.
• Shotcrete / impact resistance (tunnels, slope protection, airport pavements): 1.5–1.8 kg/m³; admixtures are required to prevent fiber balling. Confirm fiber selection and dosage through project-specific mix trials.

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