

POLYPROPYLENE SYNTHETIC MICROFIBER

TECHNICAL DATA SHEET



Dawnview™ Polypropylene Monofilament Fiber is made from high-quality polypropylene material. This type of fiber features a slender and single filament structure, providing excellent strength and durability. It is widely used in civil engineering, geotechnical engineering, and concrete reinforcement applications. The Polypropylene Monofilament Fiber enhances the crack resistance and impact resistance of concrete, improving the stability and durability of structures.



PERFORMANCE

- **High tensile strength:** The Polypropylene Monofilament Fiber exhibits excellent tensile strength, providing enhanced reinforcement and durability to various construction materials.
- **Crack resistance:** This fiber effectively controls and minimizes the formation and propagation of cracks in concrete, enhancing the overall structural integrity.
- **Impact resistance:** The Polypropylene Monofilament Fiber improves the impact resistance of concrete, reducing the risk of damage due to external forces.
- **Durability:** This fiber has excellent resistance to chemicals, UV radiation, and weathering, ensuring long-term performance and stability of the reinforced materials.
- **Easy blending:** The Polypropylene Monofilament Fiber can be easily mixed and dispersed uniformly in concrete mixes, facilitating smooth construction processes.

APPLICATIONS

- **Construction Engineering:** Used for concrete reinforcement, foundation stabilization, and support of underground structures.
- **Road and Bridge Construction:** Employed for strengthening and improving the durability of asphalt pavements and concrete road bases.
- **Soil and Environmental Protection:** Applied for soil stabilization, erosion control, and prevention of soil settlement.
- **Hydraulic Engineering:** Utilized for seepage prevention, protection, and reinforcement of dams and waterways.
- **Mining and Underground Engineering:** Enhances coal mine support, tunnel reinforcement, and stability of underground spaces.

TECHNICAL DATA

Type:	Micro Monofilament
Tensile Strength:	≥550MPa
Elastic Modulus:	>3500MPa
Melting Point:	160-170°C
Acid&Alkali Resistance:	Strong
Specific gravity:	0.91/cm ³
Size:	3-20mm
Dosage Reference:	0.6kg/m ³ -1.2kg/m ³
Concrete:	0.6kg/m ³ ,

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