

POLYPROPYLENE SYNTHETIC MACROFIBER

TECHNICAL DATA SHEET



Dawnview™ Polypropylene Macro Synthetic Fiber is produced using polypropylene fiber material with longer fiber lengths. This synthetic fiber exhibits high strength, elongation properties, and exceptional tensile strength. It finds extensive applications in civil engineering, geotechnical engineering, and soil stabilization projects. The Polypropylene Macro Synthetic Fiber increases the tensile strength and stability of soil, reduces soil erosion and settlement, and provides reliable soil reinforcement effects.



PERFORMANCE

- **High strength and elongation properties:** The Polypropylene Macro Synthetic Fiber exhibits exceptional tensile strength and elongation, providing robust reinforcement and improved structural integrity.
- **Soil stabilization:** This fiber effectively reinforces and stabilizes soils, reducing soil settlement, improving load-bearing capacity, and preventing soil erosion.
- **Crack control:** The Polypropylene Macro Synthetic Fiber minimizes the formation and propagation of cracks in asphalt pavements and concrete, improving their performance and longevity.
- **Resistance to chemicals and environmental factors:** This fiber offers excellent resistance to chemicals, alkaline environments, and harsh weather conditions, ensuring long-lasting performance.
- **Easy handling and blending:** The Polypropylene Macro Synthetic Fiber is easy to handle and disperse uniformly in construction materials, allowing for convenient application.

APPLICATIONS

- **Concrete Engineering:** Reinforces industrial floors, cement products, and precast components while controlling cracks.
- **Civil Engineering:** Strengthens soil, stabilizes slopes, and controls soil erosion.
- **Tunnels & Underground Structures:** Provides reinforcement and stability to subway tunnels, underground pipelines, and parking lots.
- **Infrastructure Development:** Enhances the foundation of airport runways, port terminals, and large industrial areas.
- **Hydraulic Engineering:** Protects and reinforces dams, embankments, and channels against seepage and erosion.

TECHNICAL DATA

Type:	Synthetic macro fiber
Tensile Strength:	≥650MPa
Elastic Modulus:	>5000MPa
Melting Point:	160-170°C
Elongation at break:	0.91 (±0.01%) g/cm ³
Acid&Alkali Resistance	Excellent
Size:	30-60mm

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Dawnview Geosynthetics Co., Ltd.

Email: info@dawnviewfiber.com
Tel/Whatsapp: +86 1751 5382 215
WWW.DAWNVIEWFIBER.COM

