



Twisted Bundle PP Fiber (TBPM G-50)

Product Description

Fiberego's TBPM G-50 is a 50mm twisted bundle polypropylene fiber designed to optimize and enhance the structural integrity of concrete. This innovative fiber reinforcement is engineered to provide superior crack resistance, increase durability, and improve the mechanical properties of concrete, making it ideal for a broad range of demanding applications.

Technical Specifications

Composition	100% Virgin Polypropylene
Diameter	1.2mm
Length	50mm
Alkali&Acid Resistance	High
Tensile Strength	≥400MPa
Elastic Modulus	≥3.5GPa
Elongation	20 - 25%
Melting Point	160-170°C

Product Advantages

- **Enhanced Crack Resistance:** Provides exceptional control over crack propagation, reducing the occurrence of cracks due to plastic shrinkage and settling.
- **Increased Durability:** Strengthens concrete by enhancing its resistance to environmental stressors, wear, and tear.
- **Superior Load Distribution:** Offers better load distribution across the concrete matrix, thereby improving structural stability.
- **Improved Tensile Strength:** Significantly boosts the tensile strength of concrete, helping to withstand greater forces and stresses.
- **Cost-Efficient:** Reduces the need for traditional steel reinforcements, lowering overall construction costs.
- **Easy Integration:** Designed for easy mixing and uniform dispersion in concrete, ensuring consistent performance throughout the structure.
- **Environmental Resilience:** Exhibits excellent resistance to chemicals, moisture, and UV radiation, preserving the quality and lifespan of concrete.

Applications

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|------------------------------------|---------------------------------------|
| 1. Commercial building foundations | 11. Parking lots |
| 2. Industrial flooring | 12. Agricultural facilities |
| 3. Road pavements | 13. Landscaping features |
| 4. Bridge construction | 14. Retaining walls |
| 5. Port and airport runways | 15. Decorative architectural concrete |
| 6. Tunnel linings | |
| 7. Earthquake-resistant structures | |
| 8. Water retaining structures | |
| 9. Mining operations | |
| 10. Highways and urban roads | |

FAQs

Q1: What makes TBPM G-50 different from other polypropylene fibers used in concrete?

A1: TBPM G-50 uses a unique twisted bundle design that enhances its bonding with the concrete matrix, providing superior crack control and distribution of stresses compared to standard polypropylene fibers.

Q2: Can TBPM G-50 be used in structural concrete applications?

A2: Absolutely, TBPM G-50 is ideal for structural applications due to its ability to enhance the tensile strength and durability of concrete, making it suitable for infrastructures such as bridges and highways.

Q3: How does TBPM G-50 contribute to sustainability in construction?

A3: By reducing the reliance on traditional steel reinforcements, TBPM G-50 lowers the carbon footprint associated with construction projects and promotes the use of more sustainable building materials.

Packaging

- **Inner Packaging:** Each pack contains 0.2-4 kg, sealed in standard plastic bags for quality preservation.
- **Outer Packaging:** Packs are placed in woven bags or cardboard boxes, each weighing 10-20 kg, tailored to customer specifications.
- **Compression Packaging:** Reduces volume for efficient storage and transport, enhancing cost-effectiveness and sustainability.

Storage and Transportation

► Storage Requirements:

Store in a dry, cool, ventilated area.
Avoid direct sunlight to prevent degradation from UV exposure.
Keep away from humid environments to maintain fiber performance.
Avoid heavy pressure and high stacking to prevent packaging damage.

► Transportation Precautions:

Handle carefully during loading and unloading to prevent damage.
Ensure the transport vehicle is dry and clean to avoid moisture.
Protect from sharp objects and prevent heavy items from crushing the packaging.

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FibeRego is a global manufacturer of fibers, specializing in a variety of fibers for the concrete industry.



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