TECHNICAL DATA SHEET

FLOREY® Polypropylene Fiber

Polypropylene Fiber

Monofilament Fiber for Concrete and Mortar

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

Website: www.floreyconcrete.com

Product Description

Short polypropylene monofilaments for distributed reinforcement in concrete and mortar. When evenly dispersed, they help control early-age plastic shrinkage cracking.

Applications

Suitable for slabs, floors, walls, pavements, basement and water tank concrete, tunnel shotcrete, culvert linings, plastering and insulation mortars.

Product Specification

Item	Specification
Material	Polypropylene
Fiber type	Monofilament
Density (g/cm³)	0.91
Fiber diameter (μm)	18–48
Fiber lengths (mm)	3, 6, 9, 12, 19
Tensile strength (MPa)	≥450
Elastic modulus (GPa)	≥3.5
Elongation at break (%)	<30
Alkali resistance (tensile retention, %)	≥98
Melting point (°C)	>165
Reference standard	GB/T 21120-2018

Guidelines for Use

Trial dosage by volume of concrete

1. General crack control: 0.6–0.9 kg/m³.
2. Basements, water tanks and pavements: 1.0–1.2 kg/m³.
3. Impact and abrasion resistance: 1.5–1.8 kg/m³.
4. Shotcrete or special ECC mixes: 2.0–4.0 kg/m³.

Verify dosage, dispersion and workability by trial mixing.

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