

DESCRIPTION

Synthetic fibers of modified polypropylene for use in fiber-reinforced concrete and mortars. Polypropylene fibers reduce the formation of plastic shrinkage cracks on concrete and increase the impact and shatter resistance. Synthetic fibers also increase abrasion resistance in concrete floors and reduce bleeding. Moreover, they improve the elasticity and cohesiveness of mortars and screeds during placing.

FIELDS OF APPLICATION

Polypropylene fibers are specifically designed for use in cases where cracks are created due to plastic shrinkage or deformations, e.g. large concrete slabs, prefabricated concrete elements, floors with in-floor heating, etc. They are used where cohesiveness of screeds or concrete is required during the placing, e.g. inclined slabs, etc. Polypropylene fibers are also used in shotcrete (gunite) applications in order to increase the compaction and density of shotcrete.

TECHNICAL DATA

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| Material | : modified polypropylene |
| Color | : white |
| Diameter | : 25 ($\pm 10\%$) μm |
| Length | : 12 ($\pm 10\%$) mm/6mm/10mm |
| Density | : 0.91 g/cm ³ |
| Melting point | : 160-170°C |
| Ignition point | : 570°C Number of fibers per kg: 120×10 ⁶ Modulus of elasticity: 1.6 GPa |
| Tensile strength | : 400 ($\pm 10\%$) N/mm ² |
| Tensile elongation | : 25 ($\pm 10\%$) |

DIRECTIONS FOR USE

Polypropylene fibers are added directly to the concrete or mortar mixing system, while batching the ingredients.

CONSUMPTION

600-1200 gr/m³ of concrete or cement mortar.

PACKAGING

- 10 Kg HDPE Bag

REMARKS

Polypropylene fibers do not replace concrete static reinforcement.

SHELF LIFE & STORAGE

Polypropylene Fiber has a shelf life of 60 months from date of manufacture when kept at a temperature between 5°C to 45°C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

QUALITY ASSURANCE

AMBICA SPECIALITY CHEMICALS is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2015.

HEALTH & SAFETY

Polypropylene Fiber is no-toxic and non-flammable. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.