

GENERAL CONCRETE / MACRO SYNTHETIC FIBRE

TRANSPARENT 45

General-purpose virgin PP macro synthetic fibre



1 PRODUCT DESCRIPTION

Transparent 45 is a general-purpose macro synthetic fibre made from 100% virgin polypropylene with no added additives. It is available in round, flat and wave forms. Round and flat forms have diamond embossing; the wave form is unembossed.

BASIC PRECAST

SLOPE SUPPORT

GENERAL CONCRETE

2 TECHNICAL PROPERTIES

PROPERTY	DECLARED VALUE
Material	100% virgin polypropylene; no additives
Forms	Round, flat or wave
Colour	Transparent
Standard length	45 mm; custom lengths by agreement
Equivalent diameter	0.70-1.00 mm, depending on form
Tensile strength	≥ 450 MPa
Elongation at break	$< 30\%$
Elastic modulus	≥ 5 GPa

Declared values are product specifications. A commissioned test result is a sample result and is not presented as a guarantee for every batch.

3 RECOMMENDED DOSAGE

No universal dosage is declared. Establish the dosage from project requirements, concrete mix, application method and verified trial results.

BY PROJECT

DOSAGE BASIS: MASS OF FIBRE PER CUBIC METRE OF CONCRETE

4 BATCHING AND MIXING

- 1 Determine the project dose by weight.
- 2 For water-soluble collated packaging, add the intact units with cement and aggregates during the normal charging sequence.
- 3 After all fibre has entered the mixer, continue mixing for an additional 3-5 minutes, or until uniform dispersion is confirmed.
- 4 Validate the selected fibre form, dosage and mixing sequence in a project-specific trial.

5 PACKAGING AND STORAGE

PACKAGING

Water-soluble film collated bundles packed in cartons. Standard carton net weight: 5 kg or 10 kg.

STORAGE

Store dry, protected from moisture and direct sunlight. Keep the original packaging closed until use.

6 TEST DOCUMENTATION

Selected physical-property data are supported by commissioned report JCBG(01)250308655, tested to GB/T 21120-2018. A public scan copy may be provided for reference; the formal stamped report is not published. Energy absorption and residual strength are not declared in this revision.

7 IMPORTANT USE NOTICE

Recommended dosage and processing guidance are starting points only. Confirm suitability through project-specific trial mixes, production trials and, where required, independent testing. This TDS is not a structural design, acceptance certificate or third-party test report.

MANUFACTURER

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