



BarChip^{*} R50

PDS

**BARCHIP R50 IS THE FIRST HIGH
PERFORMANCE STRUCTURAL
SYNTHETIC FIBRE MADE
INCORPORATING RECYCLED
MATERIALS**



Elasto Plastic Concrete

INCORPORATING RECYCLED MATERIALS FOR THE LOWEST CARBON FOOTPRINT

BarChip R50 is the first genuine structural synthetic fibre to be manufactured incorporating recycled materials. Evolving from EPC's "Future Fibre" research and development program, BarChip R50 is the first step in our goal to develop high performance fully recycled synthetic fibres. BarChip R50 delivers amazing performance and is the only choice for those looking to significantly lower the carbon footprint of their reinforcement system.

PRODUCT FEATURES

Characteristic	Material Property
Base Resin	Modified Olefin
Length	48 mm
Tensile Strength	640 MPa
Surface Texture	Continuously Embossed
Specific Gravity	0.90 - 0.92
Youngs Modulus	10 GPa
Melting Point	150°C - 170°C
Ignition Point	Greater than 450°C

BENEFITS

- Made with recycled materials
- Lower cost per Joule fibre
- Lower carbon footprint
- Flexural toughness equal to steel
- Long term durability - corrosion free
- Safer and lighter to handle than steel
- Reduced fire damage - anti spalling
- Reduced wear on concrete pumps and hoses
- Weather proof pallet packaging

DOSAGE

BarChip R50 has a regular dosage rate of 4 kg to 6 kg per cubic metre. Dosage rate should be determined based on performance requirements.



CLOSE UP OF THE BARCHIP FIBRE

MIXING

BarChip R50 is added "Bags and All" to the mixer with initial batch water. Follow with dry materials and mix at high speed for 5 minutes. Regular dose rates may reduce measured slump by between 10 mm and 20 mm. For more details, refer to EPC's "Batching and Mixing" guide, available from the EPC website.

PUMPING

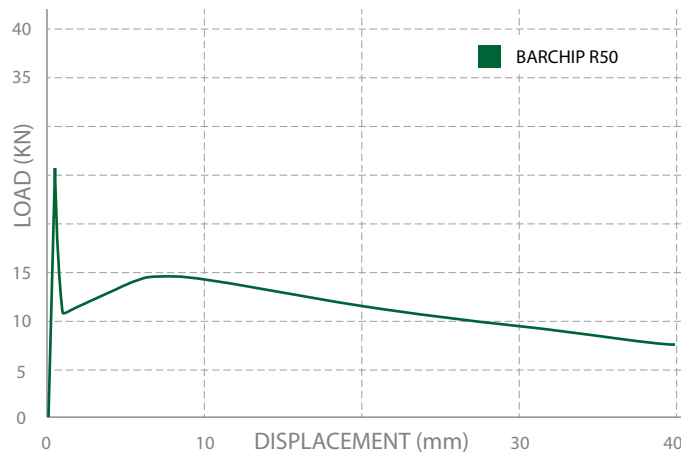
EPC's BarChip R50 fibres reduce wear and tear on concrete pumps and hoses compared with steel fibre alternatives. Precaution should be taken to ensure the fibres can pass freely through the pump hopper grate.

HANDLING AND STORAGE

BarChip R50 is packed in 3 kg mulchable paper bags (432 kgs per pallet) and supplied on durable recyclable plastic pallets with a fitted rain hood to allow storage outdoors. Bags stored individually must be protected from water damage.

For full safety refer to BarChip R50 MSDS available for download at: www.elastoplastic.com

RESULTS



Material	ASTM C1550 RDP	EN - 14448
BarChip R50 @ 5 kg/m ³	420 Joules	1050 Joules

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Disclaimer: This information has been provided as a guide to performance only, for specific and supervised conditions. The user is advised to undertake their own evaluation and use the services of professionals to determine the product suitability for any particular project or application prior to commercial use. ISO 9001:2000 © Elasto Plastic Concrete 2016



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