



Revision Nr: 0
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RFORCE™ MF PRELIMINARY

DESCRIPTION

RForce™ MF is a milled carbon fiber solution that is made from 100% recycled carbon fiber. This innovative material offers enhanced mechanical properties, increased strength, lightweight and reduced environmental impact. It is designed for applications demanding a balance of strength, durability, and sustainability.

APPLICATIONS

- Compounding
- 3D Printer applications
- Cement formulations
- Customer products
- Resin reinforcements
- Electrical & electronic components

PROPERTIES

Parameter	Unit	Test Method	Value
Carbon Content	%		>99
Filament Diameter	µm		7
Fiber Length	µm		100
Bulk Density	g/l		350
Sizing Agent			Unsize
Tensile Strength*	MPa	ISO 10618	4200
Tensile Modulus*	GPa	ISO 10618	240

* Indicated mechanical properties are values measured by impregnated strand test from virgin fibers.
10-15% tensile strength reduction is anticipated compared to virgin fibers.

Aksa Carbon

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SAFETY AND HANDLING

It's strongly recommended to follow all local regulations on safety while handling this product including but not limited to protecting equipment and measures required during the operations. Carbon fiber and its dust are electrically conductive. Thus, there is a need to have special sealing for electrical equipment if there will be any profile processing performed.

Keep the material in its original packaging to prevent contamination and exposure to moisture. Avoid inhalation of dust or fumes generated during processing. Ensure proper ventilation in processing areas.

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