Revision Nr: 0
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RECYCLED CARBON FIBER
(RFORCE™ CF PRELIMINARY)

DESCRIPTION

RForce™ CF is an engineered material prepared from precisely chopped 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.

Reinforcer	100% recycled chopped carbon fiber
Carbon Fiber Content	> 99%
Fiber Length	6 mm, 12 mm
Sizing	Unsized

APPLICATIONS

- Compounding
- Automotive components
- Electrical & electronic components
- Industrial machinery parts
- Sporting goods
- Customer products

PROPERTIES

Parameter	Unit	Test Method	Value
Filament Diameter	µm		7
Tensile Strength*	MPa	ISO 10618	4200
Tensile Modulus*	GPa	ISO 10618	240
Moisture Content	%		max 0.5
Density	g/cm³	ISO 10119	1.7

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

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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 is any handling of carbon fiber 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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