

RFORCE™ VEIL PRELIMINARY TECHNICAL DATA SHEET

DESCRIPTION

RForce™ Veil is a wet-laid nonwoven solution that is made from %100 recycled carbon fiber in basis from 10 to 60gsm. 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

- Surfacing
- Prepregs
- Structural Composites
- Fuel Cell GDL
- Flow Batteries- Electrodes
- PEM Electrolysis

PROPERTIES

Parameter	Unit	Test Method	Value
Filament Diameter	µm		7
Tensile Strength*	MPa	ISO 10618	4200
Tensile Modulus*	GPa	ISO 10618	240
Arial Weight	g/m2	DIN EN ISO 29073-1	10-60
Roll Width	mm		600
Binder			PVA / Acrylate
Binder Content	%		10-15

* 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 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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