

Pultrusion
Multi-Resin Compatible

Advantex® glass

Advantex® glass is a boron-free glass and presents significantly improved corrosion resistance across a wide range of aggressive environments.

Advantex® glass is an E-CR glass in accordance with ASTM D578 and ISO 2078.

This translates into important benefits for end-users over traditional E-glass: longer service life, larger safety coefficients for the same design, and material savings. Traditional E-glass includes boron and often contains added fluorides. By using new manufacturing technology to eliminate these components from the glass composition, Advantex® glass has become a benchmark for integrated pollution prevention and the highest energy efficiency – all in an optimized process.

3B measures its efforts and works continually to minimize its impact on the environment and to set new standards within the global glassfibre industry. This is our commitment.

Advantex® glass is available from 3B European facilities in Battice - Belgium and Birkeland - Norway.

399

Direct Roving for Polyester, Vinylester, Polyurethane, Epoxy Resins



Product Description

3B Direct Rovings consist of continuous filaments bonded into a single strand and wound onto a bobbin shape. A proprietary sizing applied on the fibres assures an excellent resin-to-glass bonding.

Corrosion resistant 399 Direct Rovings made of Advantex® glass are specifically designed for the pultrusion process and are compatible with thermoset resins.

They are the materials of choice for the manufacturing of high quality profiles. 399 Direct Rovings made of Advantex® glass are also used in filament winding process under specific conditions; contact us for further assistance.

FEATURES	BENEFITS
Boron-free ECR glass	High corrosion resistance
High thermal properties	High resistance to fire propagation, high insulation properties
Polyester, Vinylester & Epoxy compatible	Maximum flexibility on workshops
Low strand integrity	High-speed impregnation in pultrusion

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PRODUCT PORTFOLIO

Product Name	Filament diameter µm	Linear Density tex (gr/km)	Bobbin type
399	17	1200	C
399	24	2400	C
399	24	4800	C
399	34	9600	C

FIBRE PROPERTIES

Fibre's density	2.62 g/cm ³	
Fibre's CLTE	6.10 ⁻⁶ K ⁻¹	(ASTM D696)
Softening point	916°C	(ASTM C338)
Tensile Strength	2200-2400 MPa	(ASTM D2343-08)
Tensile Modulus	81 GPa	(ASTM D2343-08)

PACKAGING

Bobbins are individually wrapped with stretched plastic film for protection, improved handling and to allow optimum transfer from bobbin to bobbin. Nominal weight for C bobbins is 25 kg.

Two pallet configurations are available:

- Bulk Pack: standard packaging, consists of individual bobbins.
- Creel Pack: bobbins are connected together for continuous unwinding and no bobbins handling for operators.

For detailed information about bobbins, pallet weight, dimensions and layout please contact us.

STORAGE

Storage in a cool and dry warehouse into the original packaging is formally recommended. More precisely ideal storage conditions are a temperature between 15°C and 35°C and a relative humidity comprised between 35% and 75%. If these conditions are maintained, the glass fibre product should not undergo significant changes when stored for extended periods of time. It is also strongly recommended to condition it in the workshop for at least 24 hours before use to prevent condensation.

For an optimal processing it is recommended to use the product in ambient conditions (20°C-23°C and a relative humidity of 60%-65%).



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