

Weaving, Multi-resin

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.

111A

Direct Roving



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 111A Direct Rovings made of Advantex® glass are specifically designed for weaving processes.

The silane sizing of 111A Direct Rovings offers excellent adhesion with thermoset resins and is also drinking water contact approved.

111A Direct Rovings are also used in filament winding processes, and in production of uni-directional fabrics under specific conditions.

FEATURES	BENEFITS
Boron-free E-CR glass	High corrosion resistance
Polyester, Vinylester, Epoxy compatible	Maximum flexibility on workshops
High strand integrity	High efficiency in weaving operations
Potable water approved	Suitable for manufacturing of composite drinking water parts
Globally available	Get flexibility in manufacturing the highest quality wherever you are

www.3B-fibreglass.com

111A

Direct Roving

PRODUCT PORTFOLIO

Product Name	Filament diameter	Linear Density µm	Bobbin type tex (gr/km)	Packaging
111A	13	200	R	See below
111A	16	300	R	
111A	16	320	R	
111A	13	410	R	
111A	14	480	R	
111A	17	600	C	
111A	21	900	C	
111A	17	1200	C	
111A	17	2400	C	
111A	24	4800	C	

FIBRE PROPERTIES

Density	CLTE (ASTM D696)	Tensile Strength (ASTM D2343-08)	Tensile Modulus (ASTM D2343-08)
2.62 g/cm ³	6.10 ⁻⁶ K ⁻¹	2200-2500 MPa	81 GPa

PACKAGING

Bobbins are individually wrapped with stretched plastic film for protection, improved handling and allowing optimum transfer from bobbin to bobbin. Nominal weights for R and C bobbins are respectively 21 and 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 bobbin 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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