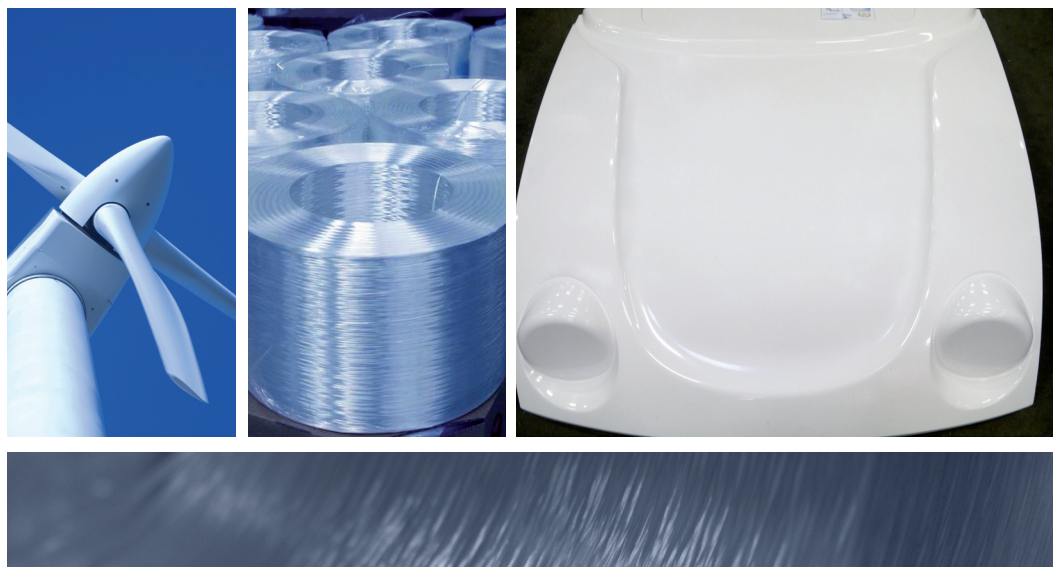


Designed for production of Woven Rovings & Non Crimped Fabrics
Acrylic Thermoplastic Resins
Compatible

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 fibreglass industry. This is our commitment.

SE 4740 Direct Rovings



Product Description

3B Direct Rovings consist of continuous Advantex® glass 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. SE4740 Direct Roving's sizing provides excellent adhesion to Acrylic Thermoplastic resins as revealed by high shear

strength as well as high inter-laminar fracture toughness energy. SE4740 Direct Rovings are specifically designed for production of Woven Rovings and Non Crimped Fabrics. These fabrics can then be used as inputs for T-RTM or infusion technologies. It is recommended not to use SE4740 Direct Rovings in systems other than Acrylic Thermoplastic resins.

FEATURES	BENEFITS
Boron-free E-CR glass	High corrosion resistance
Medium to high strand integrity	High productivity & high quality parts in Woven Rovings and Non Crimped Fabrics productions
Compatibility with Acrylic Thermoplastic resins	Optimum transverse tensile strength Optimum inter-laminar shear strength Designed for Structural Composites
Globally available	Get flexibility in manufacturing the highest quality wherever you are

www.3B-fibreglass.com

SE 4740 Direct Rovings

PRODUCT PORTFOLIO & GENERAL PROPERTIES (PLEASE CONTACT US FOR ADDITIONAL INFO ON PROPERTIES)

Product name	Filament diameter µm	Linear density tex (gr/km)	Bobbin type	Packaging
SE4740	16	300	R	see below
SE4740	14	480	R	see below
SE4740	17	600	C	see below
SE4740	17	1200	C	see below
SE4740	17	2400	C	see below
Fibre's density	2.62 gr/cm ³			
Fibre's CLTE	6.10 ⁻⁶ K ⁻¹			
Fibre Tensile Modulus	81 GPa			
Properties of SE4740 reinforced acrylic thermoplastic laminates:				
SE4740 uni-directional fabric reinforced Arkema Elium® laminates molded at 80°C for 2 hours by VARI and autoclave (5 bar). Glass fibre content: 58% in volume				
Inter-laminar fracture toughness energy, G _{IC}		1370 Jm ⁻²	ISO 15024	
Transverse tensile strength, σ _{90°}		60 MPa	ISO 527-4 type 3	

PACKAGING

Bobbins are individually wrapped with stretched plastic film for protection, improved handling and to allow 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
 - Tack-Pack: bobbins are connected together for continuous unwinding and no bobbins handling for operators.
- For detailed informations on bobbins, on pallet's 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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or services described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production. It is important for the user to determine the properties of its own commercial compounds when using this or any other reinforcement.

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