Binani 3B the fibreglass company

BRAJ BINANI GROUP

datasheet

SE 1500 Direct Rovings for Suspension Systems

Knitting
Prepreg - RTM
Epoxies specific

Advantex® glass

Advantex® glass is a boron-free glass presenting 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 technologies 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.

Product Description

With more than one million leafsprings on roads, 3B's SE 1500 is today the global direct roving **reference for composite lightweight suspension systems**. Springs made of 3B's SE 1500 are displaying outstanding fatigue properties when produced with epoxy resins. Tailored for epoxies only, it is not recommended to use SE 1500 with other resin systems.

The physical properties of SE 1500 show **exceptional resistance to corrosion against road salts and automotive fluids**.
SE 1500 direct roving is specifically designed for knitting or direct in-line processes thanks to a medium strand integrity enabling **good strand opening and covering**.
This roving is particularly well suited for Resin Transfer Molding (RTM) or prepreg manufacturing.

FEATURES	BENEFITS
Boron-free E-CR glass	High corrosion resistance
Epoxies specific	High fatigue performances
Medium strand integrity	High productivity and quality in knitting and prepreg operations
Available globally	

www.3B-fibreglass.com

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GENERAL PROPERTIES

Product name	Filament diameter µm	Linear density tex (gr/km)	Bobbin type	Packaging
SE 1500	17	2400	C	see below

Fibre density	2.62 gr/cm^3	
Fibre CLTE	6.10^{-6}K^{-1}	(ASTM D696)
Tensile Strength	2400-2500 MPa	(ASTM D2343-08)
Tensile Modulus	81GPa	(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 24 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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