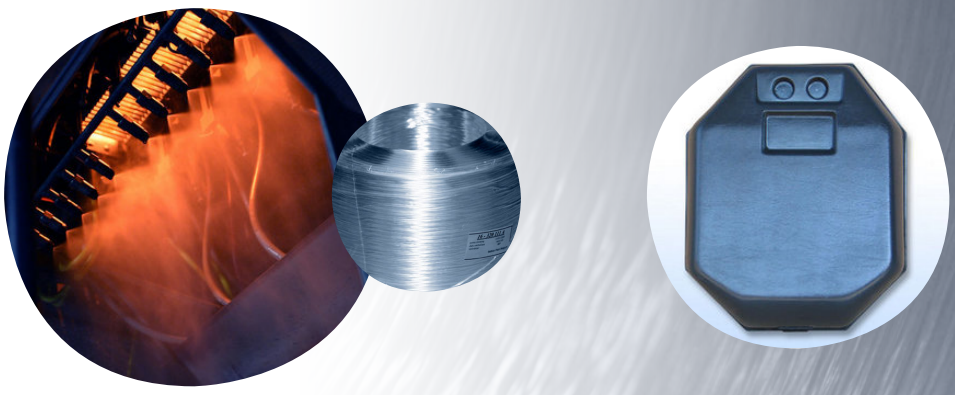
datasheet

Long Fibre Thermoplastic (LFT)

SE 4535

Direct Roving for Long Fibre PA



Advantex® glass

Advantex® glass has been formulated to be a boron-free E-glass and to possess significantly improved corrosion resistance across a wide range of aggressive environments. Advantex® glass is both an E-CR glass and an E-glass in accordance with ASTM D578 and ISO 2078.

This translates into important benefits for our customers 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 to minimize impact on the environment by establishing environmental footprint diagrams that compare traditional E-glass production with an Advantex® manufacturing platform. 3B is continually working to minimize its impact on the environment and to set new standards within the global fibreglass industry. This is our commitment.

Product description

3B Direct Rovings consists of continuous filaments bonded into a single strand. They are produced by pulling glass directly from the bushing and direct winding into a cylindrical bobbin. A proprietary sizing system ensures an excellent resin-to-glass binding through the uniform distribution at the surface of the glass filaments.

SE 4535 Direct Roving is specifically designed for reinforcing PA resin systems. It is suitable for pellets manufacturing, Direct LFT and other processes using long chopped fibres.

The product is specifically designed for providing an optimal balance of bundle strength and fibre wetting for easy processing and minimum fuzz/sizing dusts at process contact points. The coating is also tailored for an excellent spread ability of the roving bundle.

SE 4535 Direct Roving runs out from the inside of the package.

FEATURES	BENEFITS
• Excellent compatibility with various PA resins	• Superior mechanical performances
• Excellent impregnation • Outstanding spread ability	• Low unwinding tension required • Low fuzz generation for less clean up and improved process efficiencies • Excellent ability for continuous unwinding through Creel Pack type packaging • Very good dispersion in the final PA parts/pellets • Superior pelletization quality
• Multi-process compatible	• Suitable for all the LFT processes

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PRODUCT CHARACTERISTICS

Product name	Filament diameter	Linear density	Solid content	Bobbin type	Packaging
	µm	tex	%		
SE 4535	17	1200	0.35	C	Bulk Pack
SE 4535	17	2400	0.35	C	Bulk Pack

PACKAGING

All packages are wrapped with Tack Pack film protection in order to improve handling and to allow optimum transfer from bobbin to bobbin.

Typical bobbin weight is 25kg.

Bulk Pack pallet consists of individual bobbins.

3B can also offers Creel Pack pallet with connected bobbins for continuous unwinding process.

For detailed bobbin and pallet weights and dimensions, please refer to Direct Roving Packaging Datasheet.

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 period of times.

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, 3B recommends to use the product at ambient conditions (20-23°C and a relative humidity of 60-65%).

3B the fibreglass company

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