

Long Fibre Thermoplastic

- Pultrusion (pellets)
- D-LFT (injection/compression)

E-CR glass

3B E-CR glass is boron-free and presents significantly improved corrosion resistance across a wide range of aggressive environments.

3B glass is E-CR according to 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, 3B E-CR 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.

www.3B-fibreglass.com

SE 4220

Direct Roving for the Reinforcement of Polyolefins



Product Description

SE 4220 direct roving is made out of E-CR glass.

It consists of continuous filaments bonded together into a single strand and wound into a cylindrical shaped bobbin.

Strand of SE 4220 direct roving is primarily pulled from its internal diameter.

Sizing of SE 4220 is specifically designed for compatibility with Polypropylene (PP) and Polyethylene (PE).

SE 4220 is the roving of choice for Long Fibre Technologies such as:

- Pultrusion (pellets),
- D-LFT (injection & compression).

SE 4220 is in use within the Automotive industry, specifically for parts requiring semi-structural properties.

SE 4220 is also approved for use in parts in contact with food.

FEATURES	BENEFITS
Multi-application	One-fits-all (semi-structural Automotive, contact with food)
Multi-process	Pultrusion (pellets) D-LFT (injection/compression)
Multi-resin	PP, PE
Internal pull	Enables Creel-Pak® packaging for improved productivity

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PRODUCT PORTFOLIO

Product Name	Filament Diameter	Linear Density		Density	CLTE (ASTM D696)
	(μm)	tex (g/km)	yield (yd/lb)		
SE 4220	17	2400	207	2.62 gr/cm ³	6.10 ⁻⁶ K ⁻¹

FOOD CONTACT PROPERTIES

Product has been designed in order to help reinforced plastics to comply with hereunder food contact norms. For more detailed information and relative conditions of applicability, please refer to 3B's official statements.

FOOD CONTACT	NORM
X	EU 10/2001
X	FDA

PACKAGING

Standard packaging of SE 4220 consists of a 1280 mm x 1000 mm x 1200 mm (50.4 in x 39.4 in x 47.2 in) (L x w x h) pallet from where 12 strands of fibreglass are ready to be used as a creel for feeding the LFT production line.

For improved productivity the rovings inside this Creel-Pak® are spliced together enabling a bobbin-to-bobbin transfer hence reduced bobbin handling as well as a better safety for the operators.

Packaging is composed of 48 bobbins distributed on 4 layers (12 bobbins per layer) and its net weight is around 1150 kg (2535 lb).

Please contact us for possible other types of packaging.

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 (59°F) and 35°C (95°F) and a relative humidity comprised between 35% and 75%. If these conditions are maintained, the glassfibre 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 we recommend to use the product in ambient conditions (20-22°C / 68-72°F, and a relative humidity of 60-65%).



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