

Long Fibre Thermoplastic

- Pultrusion (pellets, tapes)
- Prepreg (tapes)

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.

SE 4220 EX

Direct Roving for the Reinforcement of Polyolefins



Product Description

SE 4220 EX 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 EX direct roving is primarily pulled from its external diameter.

Internal diameter of SE 4220 EX roving is made suitable with creel's standard expandable mandrels.

SE 4220 EX is proposed with a controlled length.

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

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

- Pultrusion (pellets, tapes),
- Prepreg (tapes).

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

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

| FEATURES | BENEFITS |
|---------------------------------|---|
| Multi-application | One-fits-all (structural Automotive, contact with food) |
| Multi-process | Pultrusion (pellets, tapes), Prepreg (tapes) |
| Multi-resin | PP, PE |
| External pull | Low twist Good spread |
| Proposed with controlled length | Reduced waste |

SE 4220 EX

Direct Roving for the Reinforcement of Polyolefins

PRODUCT PORTFOLIO

| Product Name | Filament Diameter (μm) | Linear Density | | Density | CLTE (ASTM D696) |
|--------------|--|----------------|---------------|------------------------|------------------------------------|
| | | tex (g/km) | yield (yd/lb) | | |
| SE 4220 | 17 | 2400 | 207 | 2.62 g/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 |
| X | Mercosur |

PACKAGING

Standard packaging of SE 4220 EX consists of 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 containing individual bobbins (Bulk-Pak®).

This Bulk-Pak® pallet configuration displays 48 individual bobbins evenly distributed on 4 layers (12 rovings per layer), leading to a net weight close to 1070 kg (2360 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.



Customer Service India

Survey No 220,Village Colvale
Taluka, Bardez, Goa-403 513, India
P. +91 832-2299 884/886
F. +91 832-2299 887
E. goa@3b-fibreglass.com

Customer Service Europe

Ildefonse Vandammestraat 5-7
B-1560 Hoeilaart, Belgium
P. +32 2 402 2000
F. +32 2 402 2002
E. 3B-thefibreglasscompany@3b-fibreglass.com

Disclaimer of Liability The data and information set forth in this publication is provided exclusively with the view to facilitating the selection of a product and/or service. The information contained in this publication is based on actual laboratory data and/or field test experience. We believe this information to be accurate, but do not guarantee in any manner its suitability to the user's process or assume any liability arising out of its use or performance. The user, by ordering the products and/or services described herein, agrees to be entirely responsible for thoroughly testing any application to determine its suitability before committing to production. It is key for the user to determine the properties of its own products and/or compounds when using a product and/or service herein described. We do not give any representation or warranty, express or implied, as to the accuracy or completeness of the data and information contained in this document, and shall have no liability to the user or any other person resulting from the use of or reliance on any such information. Further, we do not give any representation or warranty, express or implied, as to our products and/or services, including in respect of their merchantability and fitness for a particular purpose, and shall have no liability to the user or any other person resulting from the use of or reliance on any such products and/or services. Only those representations and warranties set forth in a supply agreement, when, as and if it is executed, and subject to such limitations and restrictions as may be set forth in such agreement, shall have any legal effect. Statements included in this document are not, and may not be construed as, representations or warranties or as inducements to infringe any patent or violate any law, safety code or insurance regulation. 3B reserves the right to modify the content of present document without notice and without incurring in any