

Extrusion
Injection Moulding

E-CR glass

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

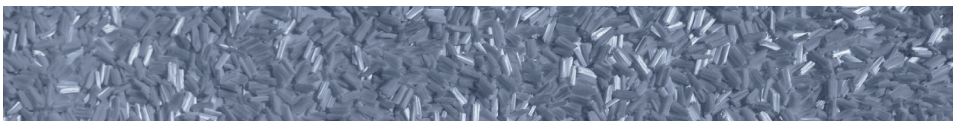
3B glass is E-CR according to ASTM D578 and ISO 2078.

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 fibreglass industry. This is our commitment.

DS 2200-13P

Chopped Strand for Polyolefins Reinforcement



Product Description

DS 2200-13P is a 13 µm filament diameter, 4 mm long chopped glass fibre designed for production of Polyolefin compounds.

DS 2200-13P shows outstanding compatibility with Polypropylene. This is the material of choice for very high glass content (up to 50 %wt) compound grades that require good fibre dispersion as well as mechanical properties. DS 2200-13P is also designed for parts weathering in prolonged contact with water, detergents and

glycol. DS 2200-13P can also be used in applications complying with stringent requirements of food contact and drinkable water standards EC 10/2011, FDA, BfR and ACS.

DS 2200-13P is supplied on a pelletized form and offers outstanding feeding-to-extruder behaviour as well as excellent fibre impregnation. DS 2200-13P's sizing chemistry also requires reduced amount of coupling agents so that parts reach optimum mechanical performances.

FEATURES	BENEFITS
Convenient for large range compound portfolio	Suitable for high glass content (up to 50 %wt) compounds Excellent dispersion for better part aspect
One-fit-all sizing chemistry	Compatibility with PP and PE Neutral colour Water, detergent and glycol resistant Suitable for parts requiring compliance with food and potable water contact
Pelletized form	Superior extruder feeding behaviour Low fuzz and fly fibres Reduction of cleaning downtime

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PRODUCT CHARACTERISTICS

PP compound DAM @ 23°C (30% DS 2200-13P + 68% Homo-PP + 1% anti-oxidant + 1% coupling agent, % in weight)

Tensile Strength (ISO 527-2)	Tensile Modulus (ISO 527-2)	Elongation (ISO 527-2)	Flexure Strength (ISO 178)	Flexure Modulus (ISO 178)	Unnotched Charpy (ISO 179-2/eU)
113 MPa	7440 MPa	3.0 %	141 MPa	6230 MPa	59 kJ/m ²
16.400 psi	1.080 ksi	3.0%	20.450 psi	903 ksi	28.1 ft-lb/in ²

Retention after ageing 40 days @ 130°C in G48/water (50/50)

(50% DS 2200-13P + 47.8% Homo-PP+ 1.2% anti-oxidant + 1% coupling agent, % in weight)

	Tensile Strength (ISO 527-2)	Tensile Modulus (ISO 527-2)	Unnotched Charpy (ISO 179-2/eU)
Retention	96%	98%	62%

FOOD CONTACT AND DRINKABLE WATER APPLICATIONS

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

	FOOD	WATER	NORM
	X		EC 10/2011 of 14 Jan, 2011
	X		FDA
	X		BfR
		X	ACS

PACKAGING

Standard packaging for DS 2200-13P chopped strand is 1150 kg polypropylene bag with bottom discharge (1 bag/pallet).

Packaging in smaller quantities is available on request.

STORAGE

It is recommended to store chopped strand products indoor at room temperature and at a relative humidity of 50% ± 15%. The product should remain in its original packaging, preferably closed. In order to prevent static electricity and humidity problems, the chopped strand material must be conditioned in the working place just prior to use.

In case a packaging unit is only partly used, it should be immediately re-sealed.

The pallet can be single stacked only.

Binani **3B** the fibreglass company

B R A J B I N A N I G R O U P

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

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