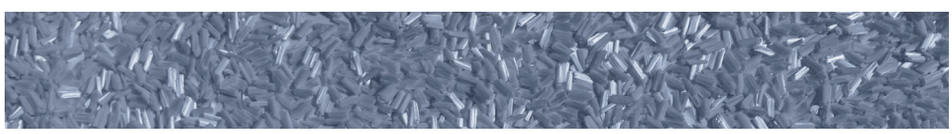
Binani 3B the fibreglass company

BRAJ BINANI GROUP

datasheet

DS 2200-10P

Chopped Strand for High Performance Polyolefins Reinforcement



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.

www.3B-fibreglass.com

Product Description

DS 2200-10P is a 10 µm filament diameter, 4 mm long chopped glass fibre designed for production of high performance polyolefin compounds. DS 2200-10P shows outstanding compatibility with Polypropylene and enables improvements of material's performances such as tensile and flexural strength, impact and creep, hence opening new design possibilities for lighter parts. DS 2200-10P is also designed for parts weathering in prolonged contact with water, detergents and glycol.

DS 2200-10P 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 2200-10P is supplied on a pelletized form and offers outstanding feeding-to-extruder behaviour as well as excellent fibre impregnation and dispersion.
DS 2200-10P's sizing chemistry also requires reduced amount of coupling agents to reach parts' optimum mechanical performances.

FEATURES	BENEFITS
High mechanical performances	Improved tensile and flexural properties Improved resilience Enhanced creep
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 2200-10P + 68% Homo-PP + 1% anti-oxidant + 1% coupling agent, % in weight)

Tensile Strength	Tensile Modulus	Elongation	Flexure Strength	Flexure Modulus	Unnotched Charpy
(ISO 527-2)	(ISO 527-2)	(ISO 527-2)	(ISO 178)	(ISO 178)	(ISO 179-2/eU)
122 MPa	7620 MPa	2,8 %	152 MPa	6620 MPa	62 kJ/m^2
17.700 psi	1110 ksi	2,8 %	22.000 psi	960 ksi	29.5 ft-lb/in^2

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 2200-10P 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.

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