


Code	PRO_TDS_23	PRO TECHNICAL DATA SHEET TDS	
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SECTION 1: PRODUCT DESCRIPTION

FC 32130 is a product made with PLA composite reinforced with cellulosic fiber that combines the advantages of better resistance with a lower carbon footprint, coming from agricultural waste, being high quality and highly sustainable biocomposites. Product suitable for injection molding applications.


SECTION 2: PHYSICAL PROPERTIES & GUIDELINES

FC 32130 is supplied as brown pellets. Temperatures during transportation and storage may not exceed 50 °C. Storage time of unopened bags may not surpass 24 months at room temperature. Drying prior to processing is essential. The property values listed below should be viewed as guidelines only and may vary based on processing conditions. No warranties of any kind, either expressed or implied are made regarding products described or regarding designs, data or information set forth. Process temperatures must not exceed 230 °C. In order to achieve high Heat Deflection Temperatures, hot molding or annealing of the part is required.

Drying: dry the material for 4 – 6 hours at 80 °C.

	Settings, °F*	Settings, °C*
Feed Throat	70	21
Feed Section	260-300	130-150
Zone 1	375-395	191-200
Zone 2	375-395	191-200
Zone 3	375-395	191-200
Zone 4	375-395	191-200
Hot Runner	395-410	200-210
Nozzle	395-410	200-210
Hot Mold Set up	212-300	80-90

*These settings are intended as a starting point. Optimization may be required.

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Physical Properties	Test Method	Value
Melt Flow Rate (190°C, 2.16 kg)	ASTM D1238:20	10 – 20 g/10 min
Density	ASTM D792:20	1.30 g/cm ³
Appearance	-	Brown

Mechanical Properties*	Test Method	Value
Tensile Strength	ASTM D638:22	> 45 MPa
Elongation at break	ASTM D638:22	< 6%
Notched Izod Impact Strength	ASTM D256:10	> 40 J/m

*Data obtained from 30 °C injection molded standard test bars (Type I).

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