



FC 32230

Technical Data Sheet (TDS)

Date of issue: 01/18/2022 Version: 1.0

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PLA Compounds

### SECTION 1: Product Description

FC 32230 is made with Earth Renewable Technologies bio-based microfiber-additive package developed for manufacturing for injection molding.

### SECTION 2: Physical Properties & Guidelines for use

FC 32230 is supplied as off-white pellets. Temperatures during transportation and storage may not exceed 80°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*
<b>Feed Throat</b>	70	21
<b>Feed Section</b>	260-300	130-150
<b>Zone 1</b>	375-395	191-200
<b>Zone 2</b>	375-395	191-200
<b>Zone 3</b>	375-395	191-200
<b>Zone 4</b>	375-395	191-200
<b>Hot Runner</b>	375-395	191-200
<b>Nozzle</b>	395-410	200-210
<b>Cold Mold Set up</b>	80-90	27-32
<b>Hot Mold Set up</b>	212-300	80-90

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

Physical Properties*		
	Test Method	Value
Melt Flow Rate (190°C, 2.16 kg)	ASTM D1238:2013	6 - 10 g/10 min
Molding Shrinkage	ASTM D955	Axial: 0.08%
		Lateral: 0.52%
		Axial: 0.25%
		Lateral: 0.49%



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Mechanical Properties*		
	Test Method	Value
Tensile Strength	ASTM D638:2014	50 MPa
		52 MPa*
Elongation at Break	ASTM D638:2014	2%
		1%*
Flexural Modulus	ASTM D790:2017	4950 MPa
		4980 MPa*
Notched Izod Impact Strength	ASTM D256:10(2018)	23 J/m
		22 J/m
HDT (before crystallization)	ISO 75-1/-2	55°C
HDT (after crystallization)	ISO 75-1/-2	100°C*

\*Data obtained from hot molded ASTM standard test bars. Results obtained at 100% add in.

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