



BioLogiQ creates plastics from polysaccharides found in plants. These plastics are designed to enhance both the functional and environmental performance of the packages and products produced with them.

All BioLogiQ compounded plastics start with **NuPlastiQ BioPolymer**, a 100% natural, renewably sourced, plant-based biopolymer.

## Description

- One of the BioBlend® family of high-performance BioPolymers designed for fiber spinning applications.
- BioBlend® XN 25200 is a masterbatch that contains 50% NuPlastiQ BioPolymer compounded with a fiber grade polypropylene.
- Made from 50% annually renewable agricultural resources.
- Supplied in pellet form.

## Applications

- BioBlend® XN 25200 is intended for yarn spinning applications.

## Properties<sup>(1)</sup>

PHYSICAL	TEST METHOD	NOMINAL VALUE	UNITS
Density:	Calculated	1.16	g/cm <sup>3</sup>
Moisture <sup>(2)</sup>	ASTM D6980	0.3 – 0.5	%
THERMAL			
Melt Flow Index:	ASTM D1238	5-7	g/10 min (190 °C/2.16 kg)

Table Notes:

- 1) These values are typical properties only and should not be used for specification purposes. End users should confirm results with their own tests.
- 2) Moisture content was measured with an infrared moisture analyzer at 105°C for 10 minutes.

## Processing Considerations

- BioBlend XN 25200 is designed to be diluted with additional fiber grade polypropylene to achieve the desired final NuPlastiQ concentration – typically 25% or less.
- BioBlend XN 25200 can be run on most existing processing equipment with a few adjustments.
- BioBlend XN 25200 is more sensitive to processing conditions such as temperature profile and residence time.
- A typical recommended temperature profile will be in the 190°C – 205°C range.

## Storage and Drying

- BioLogiQ BioBlends are dried after production and shipped in sealed moisture-proof bags that are ready to use as supplied. They should be stored indoors in the sealed container away from heat until used.
- If pellets are exposed to a humid environment, they will absorb moisture from the air. If needed, dry pellets by introducing warm dry air at no more than 80°C for 1-4 hours.
- The estimated moisture content of a BioLogiQ BioBlend can be measured with an infrared moisture analyzer at 110°C for 10 minutes. The result of the measurement will not perfectly equal the moisture content, due to possible partial evaporation of plasticizer. The result from this test should be <0.5% moisture prior to processing.