



Description

- One of the BioBlend® family of high-performance BioPolymers designed for fiber spinning applications.
- BioBlend® XN 25300 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 25300 is intended for spunbond applications.

Properties⁽¹⁾

PHYSICAL	TEST METHOD	NOMINAL VALUE	UNITS
Density:	Calculated	1.16	g/cm ³
Moisture ⁽²⁾	ASTM D6980	0.3 – 0.5	%
THERMAL			
Melt Flow Index:	ASTM D1238	5	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 110°C for 10 minutes.

Processing Considerations

- BioBlend XN 25300 is designed to be diluted with additional fiber grade polypropylene to achieve the desired final NuPlastiQ concentration – typically 25% or less.
- BioBlend XN 25300 can be run on most existing equipment with a few adjustments.
- BioBlend XN 25300 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.

Packaging

- XN 25300 can be shipped in the following formats:
 - 25kg moisture barrier bags.
 - 1000kg gaylord boxes with a moisture barrier bag.



Storage

- XN 25300 should be stored in a dry location away from heat and direct sunlight. Material must remain sealed in moisture barrier bag until used. Material should be stored under normal warehouse conditions (typical max temperature of 80°F/26°C.)

Storage

- 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.
- It is recommended to re-seal moisture barrier bags right after use. 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.