



Description

- A member of the **BioBlend® XD Family** of Durable BioPolymers for blow molding.
- BioBlend® XD 22622 contains 20% NuPlastiQ compounded with HDPE.
- Made from 20% annually renewable agricultural resources.
- BioBlend® XD 22622 is supplied in pellet form.

Applications

- BioBlend® XD 22622 is designed for blow molding applications that require stress crack resistance, rigidity, and high impact strength.

Properties

PHYSICAL	TEST METHOD	NOMINAL VALUE	UNITS
Density:	Calculated	~1.04	g/cm ³
THERMAL			
Melt Flow Index ⁽¹⁾	ASTM D1238	1.27	g/10 min (190°C/5 kg)
ADDITIONAL INFORMATION			
Moisture Content: ⁽²⁾	ASTM D6980	0.35 – 0.65	%
MECHANICAL PROPERTIES ⁽³⁾			
Tensile Properties	ASTM D638		
Secant Modulus		475	MPa
Break Strength		27	MPa
Flexural Properties	ASTM D790		
Flexural Modulus		588	MPa
Ultimate Strength		28	MPa

Note:

- 1) MFI is based on a 20% NuPlastiQ masterbatch. Please contact us if you have any questions about MFI values for diluted blends.
- 2) Moisture content was measured with an infrared moisture analyzer at 110°C for 10 minutes.
- 3) These values are typical properties only and should not be used for specification purposes. End users should confirm results with their own tests. Mechanical properties were tested at a 20% NuPlastiQ concentration.

Processing Considerations

- BioBlend XD 22622 can be run on existing processing equipment with a few adjustments.
- At temperatures above 200°C degradation of the NuPlastiQ BioPolymer may occur. A typical temperature profile in the 190-195C range is recommended.
- Under normal conditions, processing BioBlends may cause a slight odor and/or smoke. Always use proper ventilation. See the BioBlend® XD 22622 SDS for details.
- If extruder operation must be stopped temporarily, it is recommended to purge the material in the barrel before resuming processing or material degradation will occur.

Packaging

- BioBlend XD 22622 can be shipped in the following formats:
 - 25kg moisture barrier bags.
 - 1000kg gaylord boxes with a moisture barrier bag

Storage

- Material should be stored inside in a dry location away from heat and direct sunlight. Material must remain sealed in moisture barrier bag until ready to be used.

Drying

- 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.