



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

- A member of the **BioBlend® XD Family** of Durable BioPolymers for blow molding.
- BioBlend® XD 22620 contains 20% NuPlastiQ compounded with HDPE.
- Made from 20% annually renewable agricultural resources.
- BioBlend® XD 22620 is supplied in pellet form.
- This TDS covers the following BioBlend® XD BioPolymers: XD 22620 and XD 22621

## Applications

- BioBlend® XD 22620 is designed for blow molding applications that require stress crack resistance, rigidity, and high impact strength.

## Properties

PHYSICAL	TEST METHOD	NOMINAL VALUE	UNITS
Density: <sup>(1)</sup>	Calculated	~1.04	g/cm <sup>3</sup>
<b>THERMAL</b>			
Melt Flow Index <sup>(2)</sup>	ASTM D1238	1.0	g/10 min (190°C/5 kg)
Melting Temperature Range:	ASTM D3418	130	°C
<b>ADDITIONAL INFORMATION</b>			
Water Content:	ASTM D6980	≤ 0.5	%
<b>MECHANICAL PROPERTIES <sup>(3)</sup></b>			
<b>Tensile Properties</b>		ASTM D638	
Secant Modulus		630	MPa
Break Strength		12.5	MPa
<b>Flexural Properties</b>		ASTM D790	
Flexural Modulus		660	MPa
Ultimate Strength		26.0	MPa

Note:

- 1) Calculated value is based on a 20% NuPlastiQ masterbatch.
- 2) MFI is based on a 20% NuPlastiQ masterbatch. Please contact us if you have any questions about MFI values for diluted blends.
- 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 22620 can be run on existing processing equipment.
- Under normal conditions, processing BioBlends may cause a slight odor and/or smoke. Always use proper ventilation. See the BioBlend® XD 22620 SDS for details.

## Storage and Drying

- Pellets are shipped in sealed moisture-proof bags and are ready to be used as supplied. Until used, they should be stored in a sealed container away from heat.
- If pellets are exposed to a humid environment, they will absorb moisture. If needed, dry pellets by introducing warm, dry air at 60°C for 1-4 hours. Pellets should be < 0.5% moisture content prior to processing.
- BioLogiQ warrants the material for replacement value only, within 12 months of shipping date.