



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® XD family of high durability BioPolymers designed for injection molding.
- BioBlend XD 25150 is a masterbatch that contains 50% NuPlastiQ GP BioPolymer compounded with polypropylene.
- This Masterbatch is normally downblended with 20% to 60% additional polypropylene to achieve 20% to 40% biobased content in the final product.
- Made from 50% annually renewable agricultural resources.
- BioBlend® XD 25150 is supplied in pellet form.

## Applications

- BioBlend® XD 25150 is intended for injection molded applications that require fast cycle times.
- Recommended for large thin wall parts, caps, and closures.

## Properties

PHYSICAL	TEST METHOD	NOMINAL VALUE	UNITS
Density:	ASTM D792	1.16	g/cm <sup>3</sup>
<b>THERMAL</b>			
Melt Flow Index	ASTM D1238	3.5 – 4.4	g/10 min (190 °C/2.16 kg)
Melting Temperature Range:	ASTM D3418	130	° C
Heat Deflection Temperature Range:	ASTM D3418	81 – 100	° C
<b>MECHANICAL</b>			
Young's Modulus:	ASTM D638	1130	MPa
Tensile Strength at Yield:	ASTM D638	23.8	MPa
Tensile Strength at Break:	ASTM D638	35.2	MPa
Flexural Modulus:	ASTM D790	1770	MPa
Ultimate Flexural Strength:	ASTM D790	49.7	MPa
Izod Notched Impact Strength:	ASTM D256	10.5	J/m
<b>ADDITIONAL INFORMATION</b>			
Water Content:	ASTM D6980	≤ 0.5	%

Note: These values are typical properties only and should not be used for specification purposes. End users should confirm results with their own tests.

## Processing Considerations

- XD 25150 can be run on existing processing equipment and is generally diluted with a customer specific polypropylene to achieve a final NuPlastiQ GP concentration between 10% and 40%.
- Injection molded applications with XD 25150 are slightly more sensitive to processing conditions such as temperature profile.

Product: **BioBlend® XD 25150**



- Under normal conditions, processing BioBlends may cause a slight odor and/or smoke. Always use proper ventilation. See the **BioBlend® XD 25150** 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.