



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® XP family of high performance biopolymers designed for blown film applications.
- BioBlend® XP 24550 is a masterbatch that contains 50% NuPlastiQ® GP BioPolymer compounded with butene LLDPE.
- Made from 50% annually renewable agricultural resources.
- Supplied in pellet form.

Applications

- Used for final products requiring strength and plasticity, such as packaging.

Processing Considerations

- XP 24550 is designed to be diluted with polyethylene to achieve a final NuPlastiQ® GP BioPolymer content between 10% and 40%.
- XP 24550 is designed to be run on existing equipment.
- Films made with NuPlastiQ are slightly more sensitive to processing conditions such as temperature profile, die gap, and blow up ratio. See the NuPlastiQ LLDPE Film Processing Guide for additional information.
- Under normal conditions processing NuPlastiQ may cause a slight odor and/or smoke. Always use proper ventilation. See the BioBlend® XP 24550 SDS for details.

Properties

PHYSICAL	TEST METHOD	NOMINAL VALUE
Density:	ASTM D792	1.16 g/cm ³
THERMAL		
Melt Flow Index (190 °C/2.16kg):	ASTM D1238	0.38 g/10 min
Melting Temperature Range:	ASTM D3418	130 °C
Heat Deflection Temperature:	ASTM D3418	81 – 100 °C
ADDITIONAL INFORMATION		
Water Content:	ASTM D6980	≤ 0.5 %

- This TDS covers the following BioBlend® XP BioPolymers: XP 24550 and XP 24551

Storage and Drying

- Pellets are shipped in sealed moisture-proof bags and are ready to use as supplied. They should be stored 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 60°C for 1-4 hours. Pellets should be <0.5% moisture content prior to processing.