



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® BC Biodegradable/Compostable Resins** designed for films and bags.
- Made from 50% annually renewable agricultural resources, including **NuPlastiQ® CG BioPolymer** (also known as the GP 1000 series), which is certified by TUV to be industrial compostable.
- **BioBlend® BC 27250** is supplied in pellet form, fully compounded and ready for film production.

Applications

- **BioBlend® BC 27250** is intended for films and bags.
- Used for products that require biodegradation and are intended for compost environments.

Properties

PHYSICAL	TEST METHOD	NOMINAL VALUE	UNITS
Density:	ASTM D792	1.3	g/cm ³
THERMAL			
Melt Flow Index	ASTM D1238	2.9	g/10 min (190 °C/2.16 kg)
Melting Temperature Range:	ASTM D3418	140 -- 160	° C
ADDITIONAL INFORMATION			
Water Content:	ASTM D6980	≤ 0.5	%
MECHANICAL PROPERTIES			
Tensile Properties			
Secant Modulus @ 1%	D638	239	MPa
Tensile Strength at Break	D638	12	MPa
Elongation at Break	D638	110	%
Flexural Properties			
Flexural Modulus	D790	310	MPa
FILM PROPERTIES			
Tensile Strength			
MD	ASTM D882	3100	psi
TD	ASTM D882	2775	psi
Elongation at Break			
MD	ASTM D882	330	%
TD	ASTM D882	460	%
Elmendorf Tear			
MD	ASTM D1922	380	g
TD	ASTM D1922	160	g
Dart Drop Test			
	ASTM D1709	380	g

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

- BC 27250 can be run on existing processing equipment and is generally used for monolayer films.
- Films containing **NuPlastiQ** are slightly more sensitive to processing conditions such as temperature profile, die gap, and blow up ratio. See the **BioBlend** Film Processing Guide for additional information.
- Under normal conditions, processing BioBlends may cause a slight odor and/or smoke. Always use proper ventilation. See the **BioBlend® BC 27250** 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.