



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 40% 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 27240** is supplied in pellet form, fully compounded.

### Applications

- **BioBlend® BC 27240** 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 <sup>3</sup>
<b>THERMAL</b>			
Melt Flow Index	ASTM D1238	3.7	g/10 min (190 °C/2.16 kg)
Melting Temperature Range:	ASTM D3418	140 – 160	° C
<b>ADDITIONAL INFORMATION</b>			
Water Content:	ASTM D6980	≤ 0.5	%
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile Properties</b>			
Secant Modulus @ 1%	D638	195	MPa
Tensile Strength at Break	D638	12	MPa
Elongation at Break	D638	272	%
<b>Flexural Properties</b>			
Flexural Modulus	D790	237	MPa
<b>FILM PROPERTIES</b>			
<b>Tensile Strength</b>			
MD	ASTM D882	3400	psi
TD	ASTM D882	3000	psi
<b>Elongation at Break</b>			
MD	ASTM D882	290	%
TD	ASTM D882	530	%
<b>Elmendorf Tear</b>			
MD	ASTM D1922	400	g
TD	ASTM D1922	110	g
<b>Dart Drop Test</b>			
	ASTM D1709	360	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 27240 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 27240** 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.