



DESCRIPTION

NuPlastiQ CG 1005 BioPolymer is a plant-based polysaccharide, low crystallinity, thermoplastic resin that offers exceptional functional and environmental benefits. It is designed to be blended with biobased and biodegradable resins such as PLA, PHA, and PBAT as well as traditional resins such as LLDPE and PP. **Using NuPlastiQ CG 1005** helps reduce both fossil fuel-based plastic content and greenhouse gas generation.

Applications

- NuPlastiQ CG 1005 is engineered for improved thermal stability and processing performance.
- Designed to be compounded with other biobased and biodegradable resins to form:
 - **BioBlend® BC** Biodegradable/Compostable blends for packaging and films.
- CG 1005 can also be compounded with traditional fossil-based resins to produce:
 - **BioBlend® XP** High Performance BioPolymers for packaging.
 - **BioBlend® XD** High Durability Polymers for durable goods.
- Supplied in pellet form.

Properties

PHYSICAL	TEST METHOD	NOMINAL VALUE
Density:	ASTM D792	1.41 g/cm ³
THERMAL		
Melt Flow Index (170 °C/21.6kg):	ASTM D1238	4 g/10 min
ADDDITIONAL INFO.		
Moisture Content: ⁽¹⁾	ASTM D6980	≤ 1.0 %

Table Notes:

- 1) Moisture content was measured with an infrared moisture analyzer at 105°C for 10 minutes.
- 2) These values are typical properties only and should not be used for specification purposes. End users should confirm results with their own tests.

Packaging

- NuPlastiQ® CG 1005 can be shipped in the following formats:
 - 25kg moisture barrier bags.
 - 1000kg gaylord boxes with a moisture barrier bag.

Storage

- Material should be stored in a dry location away from heat and direct sunlight. Material has a shelf life of 1 year if stored under normal warehouse conditions (typical max temperature of 80°F/26°C.)

Drying

- NuPlastiQ CG 1005 will absorb moisture from the environment. It is delivered in moisture barrier sealed bags and drying is not normally required prior to use. The material must be kept sealed until directly before processing. Any leftover material should be re-sealed as soon as possible to prevent moisture absorption. If left in an open container, pellets should be dried to less than 1% moisture as measured by the test conditions in the table above. Drying of pellets can be performed by introducing warm, dry air at 60°C for 1-4 hours.

Certifications

- CG 1005 maintains the compostability of the resin with which it is compounded.
- CG 1005 has passed ASTM D6400 and EN-13432 and is certified to be industrial and home compostable by OK TUV.
- NuPlastiQ CG 1005 is certified to be marine biodegradable by OK TUV.
- NuPlastiQ CG 1005 is a USDA Certified Biobased Product.

