NOPLA 101Z

Biodegradable thermoplastic material designed for injection molding applications

PRODUCT DATA SHEET
Date: 09.2025

Product description	Thermoplastic material 100% of biological origin, produced from annually renewable plant resources, GMO free. Designed for injection molding applications. It is fully biodegradable and compostable in natural conditions.
Processing conditions	The material is designed for injection molding production, including packaging in contact with food. It has hygroscopic properties, which is why it is supplied in airtight packaging that should be unsealed immediately before use. It is recommended to pre-dry the product before processing. It is also recommended that the granules be protected from moisture at each stage of processing, as well as during storage in unsealed packages. Processing parameters: Supply zone temperature below 30°C Temperature of the plasticizing zone within the range of 160-200°C Mold temperature below 30°C The material is not compatible with plastics, therefore the cleaning of the injection system is required in order to avoid microplastic contamination. Do not overheat the material to more than 200ºC. It is advisable to prevent prolonged stagnation of the material in the cylinder, otherwise thermal degradation may occur, leading to production instability and deterioration of the properties of products.
Form/Colour	The product has the form of beige granulate. Coloring should only be carried out with the manufacturer's supplied colour concentrates.
Storage	The granulate in airtight packaging should be stored in a dry and cool place with no direct sunlight access and all the external sources of heat. The packaging must be airtight until the material is used and resealed after use to avoid water contamination. If the granulate becomes moist it is advisable to dry it before use for at least 3 h at the temperature of 60°C.
Packaging	Barrier: 25 kg bag, 1000 kg big bag, 1000 kg octabin

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Typical properties	Unit	Nominal value*	Research method
Physical			
Density	g/cm^3	1.26	PN-EN ISO 1183-1
MFR (190°C, 2,16 kg)	g/10 min	34	PN-EN ISO 1133
MVR (190°C, 2,16 kg)	cm^3/10 min	29	
Mechanical			
Tensile strength	MPa	29	
Elongation at break	%	78	PN-EN ISO 527
Tensile modulus of elasticity	MPa	650	
Modulus of rupture	MPa	50	PN-EN ISO 178

* Typical nominal values stated for information only, do not treat as the product specification.

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