

## BIO PLAST POM SP. Z O.O.

## **NOPLA 107**

## Biodegradable thermoplastic material designed for injection moulding applications

PRODUCT DATA SHEET Date: 07.2023

Product description	Thermoplastic material 100% of biological origin, produced from annually renewable plant resources, GMO free. Designed for injection moulding applications. It is fully biodegradable and compostable in natural conditions.		
Processing conditions	The material is designed for injection moulding production. 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 plasticising zone within the range of 160-200°C Mould 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 200°C. 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. Colouring should only be carried out with the manufacturer's supplied colour concentrates.		
Packaging	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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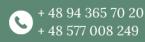


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	Unit	Nominal value*	Research method	
Typical properties				
Physical				
Density	g/cm <sup>3</sup>	1.38	PN-EN ISO 1183-1	
MFR (190°C, 2,16 kg)	g/10 min	24	PN-EN ISO 1133	
MVR (190°C, 2,16 kg)	cm <sup>3</sup> /10 min	19		
Mechanical				
Tensile strength	MPa	17	PN-EN ISO 527	
Elongation at break	%	9		
Tensile modulus of elasticity	GPa	0.6		
Modulus of rupture	MPa	19		
Modulus of elasticity under bending	GPa	0.6	PN-EN ISO 178	
Charpy notched impact strength	kJ/m²	36	PN-EN ISO 179-1	
Izod unnotched impact strength	kJ/m <sup>2</sup>	52	PN-EN ISO 180	
Thermal				
Vicat softening point, method A/10 N	°C	53	PN-EN ISO 306	
HDT – heat deflection temperature, method B (0.45 MPa)	°C	53	PN-EN ISO 75-2	

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

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