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GPM Fully Biodegradable Plastics

GPM 132 X11

PLA Modified Material Series

Extrusion Grade Biodegradable Modified Material

Version: 2.0 Issue Time: May 9, 2023

Product Features: Biodegradable

Compostable

Typical Application Fields: Modified material for extrusion

Form: Pellets, 25 kg / bag or 800 kg / bag

Mechanical Properties:

Mechanical Properties			
Properties [1]	Test Method	Units	Values [2]
Tensile Strength	ISO 178	【MPa】	37
Elongation at Break	ISO 178	【%】	90
Bending Strength	ISO 527	【MPa】	50
Bending Modulus	ISO 527	【MPa】	1900
Izod Notched Impact Strength	ISO 179-1	【kJ/m2】	30
Density	ISO 1183	【g/cm3】	1.3

[1] Not to be construe as specifications.

[2] The listed values are measured by test specification and used for referential purpose only.

Thermal Performance：

Thermal Performance			
Properties [1]	Test Method	Units	Values
MFR（190℃,2160g）	ISO 1133	【g/10min】	7
Heat Deflection Temperature	ISO 75	【℃】	90

* The above data are typical values and should not be interpreted as technical indicators for judging quality.

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1. General Requirements:

Biodegradable modified material for extrusion; special material for one-time extrusion of biodegradable straws, which can be used at >80℃.

2. Transportation and Storage

Transport and storage temperatures should not exceed 70°C. Unopened material can be stored at ambient temperature (23°C) for 12 months. The product can be used directly if the package is intact. If the package is damaged, it needs to be dried before use, because moisture above 1000ppm will affect the injection molding process, the effective drying condition is 80°C for 1-2 hour. The dried product should be treated with moisture.

Statement

All test conditions and standards are listed, the dates are for reference only, the test performance will vary with the processing method and conditions. Environmental conditions can affect the performance of the material, and the product needs to be used as soon as possible after opening.