

# Ruiyan Gregeo GPM132 Z11

## Biodegradable PBS Compound

**1.1 Product Name:** PBS Compound

**1.2 Product Features:** Biodegradable; Industrial compostable; Food contactable

**1.3 Typical Application:** Disposable cutlery

**1.4 Form:** Granules, 25 kg / bag or 800 kg / bag

### 2. Mechanical Properties

Properties <sup>[1]</sup>	Test Method	Units	Values <sup>[2]</sup>
Density	ISO 1183	g/cm <sup>3</sup>	1.5
MFR (190°C,2160g)	ISO 1133	g/10min	10
Heat Deflection Temperature B/T <sub>ff</sub> 0.45	ISO 75	°C	90
Tensile Strength	ISO 527-3	MPa	35
Elongation at Break	ISO 527-3	%	8
Flexural Modulus	ISO 178	MPa	2700
Flexural Strength	ISO 178	MPa	50
Izod Impact Strength	ISO180	KJ/m <sup>2</sup>	6

[1] Not to be construed as specifications.

[2] The values are measured by test standards listed, which may vary depending on different processing methods and conditions, are for reference only and should not be construed as indicators of quality.

### 3. Recommendations for Use

GPM132 Z11 is biodegradable modified material for injection. Moisture can cause hydrolysis of the material, and residual moisture above 200 ppm will affect the process; it is a special material for disposable cutlery, and can be used at a temperature of more than 90°C.

### 4. Transportation and Storage

Transport and storage temperatures should not exceed 60° C. The product should be stored in a dry, well-ventilated warehouse, pay attention to moisture-proof, avoid contact with soil, water, etc. Shelf life is 6 months at an ambient temperature of 23° C.

The product can be used directly if the package is intact. If damaged, it needs to be dried before use; the effective drying condition is 60° C for 2 hours. The dried product should be treated with moisture and be used as soon as possible after opening.

## Gregeo Statement

All information provided herein is based on the current knowledge and experience of Ruiyan biodegradable polyester. The version will be updated when necessary. All information is only for customers' reference in material selection and evaluation, and is not used as the basis for judging product quality

