

# Ruian Gregeo PBS RA201BL

## Biodegradable Resin PBS

**1.1 Chemical Name:** Poly (butylene succinate)

**1.2 Product Features:** RA201BL is a semi-crystalline biodegradable polyester produced from polymerization of biobased succinic acid and 1,4-butanediol with excellent processability (on blown, extrusion, thermoforming, etc.)

**1.3 Typical Application:** Packaging film, tableware, etc.

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

### 2. Mechanical Properties

Properties <sup>[1]</sup>	Test Standard	Units	Values <sup>[2]</sup>
Density	ISO 1183	g/cm <sup>3</sup>	1.26
MFR (190℃,2160g)	ISO 1133	g/10min	3~5
Melting Point	ISO 11357	℃	114
Heat Deflection Temperature B/T <sub>0.45</sub>	ISO 75	℃	91
CIE Color Value	-	L	>82
		A	<2
		B	<9
Carboxyl Group Content	GB/T 14190	mol/t	<40
Izod Impact Strength	ISO 180	KJ/m <sup>2</sup>	10
Tensile Strength	ISO 527	MPa	37
Flexural Modulus	ISO 178	MPa	510
Flexural Strength	ISO 178	MPa	31
Elongation at Break	ISO 527	%	250
Ash Content	ISO 3451-1	%	<0.02

[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

RA201BL can be blended with biodegradable materials such as PBAT and PLA. The product complies with industrial composting standards, is food contactable, with good heat resistance and excellent formability.

### 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 1 year 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 85° C for 4~6 hours. The dried product should be treated with moisture and be used as soon as possible after opening.



#### Statement

All information provided herein is based on the current knowledge and experience of Ruian 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

