

# Ruian Gregeo PBAT BT1218

Blown film grade biodegradable material

**Product description:** BT1218 is a biodegradable aliphatic and aromatic copolyester, which is mainly used in the field of film blowing.

**Typical application fields: Packaging film**

**Chemical name:** Polyadipic Acid / Butylene Terephthalate

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

**Performance:** BT1218 has good mechanical and processing properties, good processability, printability and heat sealing, as follows:

Performance	Unit	Test standard	Typical value
Density	g/cm <sup>3</sup>	ISO 1183	1.21~1.24
MFR (190°C, 2160g)	g/10min	ISO 1133	3.0~5.0
Melting point	°C	DSC	110~130
Vicat softening point A/50	°C	ISO 306	96
Thermal deformation temperature B/T <sub>#</sub> 0.45	°C	ISO 75	46
Shore hardness		ISO 868	D/15:36
Tensile strength	MPa	ISO 527	21
Elongation at break	%	ISO 527	>600

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

**Storage and drying:** During transportation and storage, the temperature shall not exceed 60 °C. The product shall be stored in a dry and well ventilated warehouse, pay attention to moisture and avoid contact with soil and water. The shelf life is 2 years under the ambient temperature of 23 °C.

It is recommended to dry in advance before processing. The typical drying conditions are 80 °C for 2 hours.

**Safety and operation:** The MSDS of BT1218 can be obtained from the official website of Ruian biotechnology. It is recommended to read the MSDS before operation or use.

**Processing Performance:** BT1218 can be blended with biodegradable materials such as PHA and PLA, and is generally not used for simply film blowing. The product is sensitive to temperature. At the beginning of film blowing,



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ensure that the temperature of the film blowing machine is as low as possible; If the machine temperature is too low, the temperature can be increased by 5 °C / time.

Statement: all information provided in this article is based on the current knowledge and experience of Ruian biodegradable polyester. This version will be updated after new knowledge and experience. All information is only for customers' reference in material selection, processing and evaluation, and is not used as the basis for judging product quality.



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