



## Competitive Green Technologies

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World-leading biomaterials technology

### TECHNICAL DATA SHEET

#### POLYBUTYLENE ADIPATE TEREPHTHALATE BASED MASTERBATCH: BIOBLAKR® - PBAT

##### Product Description:

BIOBLAKR®- PBAT is a black polybutylene adipate terephthalate masterbatch containing USDA certified 99% new carbon\*. This product is designed for injection molded commercial products requiring a black colour.

##### Method of Usage:

BIOBLAKR® - PBAT is designed for ease of dispersion and is therefore suitable for direct addition and mixing with plastic resins in a mixer, avoiding pollution and mal scattering problems caused by pigment. Should be dried down to 0.1% or less in a desiccant dryer for 2- 3 hours at 90 °C with a dew point of air at -40 °C. Recommended let down ratio is between 2% and 5 %. Competitive Green Technologies recommends the entire product be consumed at the time of opening the aluminum foil lined packaging. If material cannot be consumed, the aluminum foil lined packaging me be re-sealed to prevent moisture absorption.

##### Range of Application:

BIOBLAKR® - PBAT is designed for use in PBAT, PBS, PHA, and PLA

##### Physical Properties:

Carrier: Polybutylene adipate terephthalate

Pigment Content: 40-50%

Density: 1.02 g/cm<sup>3</sup>

Melt Flow Index: <1 g/10 min @ 190°C/2.16 Kg

\*\*Electrical Conductivity: 0.8 Siemens per metre @ 1000 kPa compression pressure

\*\*Thermal Conductivity: 0.6679 Watts per metre-Kelvin

##### Packaging:

BIOBLAKR® is a registered trademark of Competitive Green Technologies. BIOBLAKR® -PBAT is supplied in pellet form packaged in 25 Kg aluminum bags, 545 Kg gaylords, or 818 Kg supersacks containing an aluminum foil liner. It should be stored in a cool, dry location and remain sealed when not in use.

Note: Values provided are typical and should not be interpreted as product specification.

The results reported are typical with the caveat that due to variable processing methods and conditions, no guarantees or warranties are expressed or implied, including expressions of fitness for purpose or merchantability.

This is a patent pending formulation.

\*We have used patent pending Bio-Carbon substitute which has been certified by USDA as per above label as 99% new carbon.

\*\*Electrical Conductivity and Thermal Conductivity measurements are reflective of biocarbon