



Competitive Green Technologies

7 Seneca Road, Leamington ON

N8H 5P2, Canada

Phone: + 1 519 329 BLAK (2525)



World-leading biomaterials technology

TECHNICAL DATA SHEET

POLYETHYLENE BASED MASTERBATCH: BIOBLAKR® - PE

Product Description:

BIOBLAKR®- PE is a black low-density polypropylene masterbatch containing USDA certified 99% new carbon* (see label above). This product is designed for injection molded commercial products requiring a wide-spectrum black color.

Method of Usage:

BIOBLAKR® - PE 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. 3% to 5% let-down ratio is recommended depending on the application. Should be dried to less than 0.1% moisture before usage in a desiccant dryer for 2 – 3 hours at 90 °C with dew point of air at -40 °C. 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 must be re-sealed to prevent moisture absorption.

Range of Application:

BIOBLAKR® - PE is designed for use in PP, HDPE, and LDPE.

Physical Properties**

Carrier: Polyethylene

Pigment Content (Bio-carbon): 40-50%

Density: 1.16 g/cm³

Melt Flow Index: 10.5 g/10 min @ 190°C/2.16 Kg

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

Thermal Conductivity***: 0.6679 Watts per meter-Kelvin

Moisture: less than 1%

Packaging:

BIOBLAKR® is a registered trademark of Competitive Green Technologies. BIOBLAKR® -PE is supplied in pellet form packaged in 25 Kg aluminum bags or 545 Kg gaylord, 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