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bio-composite resin solutions

TECHNICAL DATA SHEET

December 2017

POLYETHYLENE BASED MASTERBATCH: BIOBLAKR® - PE

Product Description:

BIOBLAKR®- PE is a black low-density polypropylene masterbatch containing USDA certified 99% new carbon* (see label below). 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.

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/cm^3

Melt Flow Index: 10.5 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

Moisture: less than 1%

Packaging:

BIOBLAKR® - PE is supplied in pellet form packaged in 25 Kg aluminum bags or 545 Kg gaylords with an aluminum foil liner. It should be stored in a cool, dry location and remain sealed when not in use.

Notes:

*We have used patent pending Bio-Carbon substitute which has been certified by USDA, as per label below, as 99% new carbon.
**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.
***Electrical Conductivity and Thermal Conductivity measurements are reflective of bio-carbon

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 99%