



## Competitive Green Technologies

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bio-composite resin solutions

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### TECHNICAL DATA SHEET

#### POLYSTYRENE BASED MASTERBATCH: BIOBLAKR® - PS

##### Product Description:

BIOBLAKR®- PS is a black low-density polystyrene masterbatch containing USDA certified 99% new carbon\*. This product is designed for injection molded commercial products requiring a black colour.

##### Method of Usage:

BIOBLAKR® - PS 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.

Let down ratio should be between 2% and 5%. Masterbatch should be dried down to less than 0.1% moisture before use in a desiccant dryer for 20 3 hours at 90 °C with dew pint of air being -40 °C.

##### Range of Application:

BIOBLAKR® - PS is designed for use in PS, ABS, and SAN.

##### Physical Properties:

Carrier: Polystyrene

Pigment Content: 40-50%

Density: 1.01 g/cm<sup>3</sup>

Melt Flow Index: 5 g/10 min @ 200°C/5.0 Kg

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

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

##### Packaging:

BIOBLAKR® - PS is supplied in pellet form packaged in 25 Kg aluminum bags or 545 Kg gaylords 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

