

NIR-BLACK

NIR Black masterbatch line developed with the purpose of providing the recycling of black plastic products through NIR classifiers



Aware of the role it plays in the plastic industry, society and the environment, **Karina Plásticos** seeks to adopt actions, invest in research and development of new raw materials and alternatives that aim to contribute to the reduction of environmental impacts.

Most black plastic products produced worldwide are pigmented with carbon black. The carbon black plastics are undetectable in the recycling and sorting process by detectors with infrared technology (NIR), which are responsible for the classification of polymers. The sorting of recyclate is only possible if the energy received by the plastic can be reflected. Carbon black absorbs the energy and as a result, black plastics often end up as waste in landfills.

NIR Black masterbatch technology allows identification of the polymer by NIR classification detectors. The pigments reflect the energy received for NIR device, making the black plastic detectable during the recycling process. This technology allows plastic producers to develop products in black color, while fulfilling their commitments to recyclability and reducing environmental impacts.

Applications

- Films
- Vials
- Disposable packaging in general

Advantages

- Promoting the Circular Economy
- Disposal of waste in nature
- Black hue with high opacity and excellent dispersion
- Contribution to the reduction of greenhouse gases

Processes

- Extrusion
- Injection

- ✓ High-tech laboratory Specialized
- ✓ Specialized technical department
- ✓ Quality control of finished products
- ✓ Logistics with 24-hour service



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