

## IR-Detectable Black MB

### AF7820WB:

Minimalist and bold, black packaging helps products stand out from the crowd, especially in the highly-competitive food market. But, while desirable for its cool factor, black pigment can be challenging for packagers, especially those who are environmentally conscious.

The pigment traditionally used is carbon black, which offers excellent performance in terms of color strength and dispersion quality. But it completely absorbs most-to-all of the near-IR (NIR) radiation used by the type of optical sorting systems typically used in recycling, meaning that it resists detection and sorting. As a result, plastics used in applications like ready-meal boxes get sent to landfill instead of being recycled. Those black food packaging plastics that do get recycled either require labor- and energy-intensive manual sorting processes, or they end up as low-quality, low-value materials.

Tosaf's IR-detectable black MB offers a strong, jet-black coloration, without compromising detectability by NIR sorting equipment; products are completely recyclable and renewable, without added process costs or depreciation in value. In this way, the masterbatch benefits the circular economy, by promoting continual use of resources and minimizing waste and the consumption of raw materials and energy.

As well as a standard IR-detectable MB solution, Tosaf offers tailor-made formulae for specific shades and polymer carriers, according to customer demand.

#### The Tosaf portfolio of benchmark products includes:

- **IR9090PEK** - high NIR-reflectance jet black, suitable for standard polyolefin applications and for both prime and recycled raw material. Demand for specific carriers can be met upon request.
- **IR9093ETK** - high NIR-reflectance jet black, suitable for PET extrusion, thermoforming and blow molding.



#### DOSAGE RECOMMENDATIONS:

- Recommended let-down is application and appearance dependent, but is typically between 1 wt% to 5 wt%.

#### APPLICATIONS



Food and General Packaging

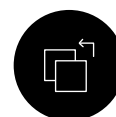


Caps & Closures



Consumables and Disposables

#### ADVANTAGES



Fully Detectable by NIR Sorting Devices



Completely Recyclable



Strong Jet-Black Shade



Full Food Contact Approvals



Can be Used With any Polymer

