# NIR Detectable Black Plastic Colorants



De-carbon Black Pigment for Skincare Packaging Solutions

Traditional carbon black masterbatches have long been the industry standard for achieving intense, opaque black packaging. However, carbon black absorbs the near-infrared (NIR) wavelengths used in automated material recovery facilities (MRFs), blinding optical sorting sensors and sending otherwise recyclable containers into landfills or incinerators.

SR Packaging's **De-Carbon Black Colorants** eliminate this barrier. By utilizing alternative NIR-detectable black colorants across PCR tubes and closures, brands can preserve a deep, gloss-black cosmetic aesthetic while ensuring total recyclability in automated sorting streams.

## NIR Reflection vs. Absorption

Unlike conventional carbon black pigments that absorb infrared radiation, De-Carbon Black pigments reflect NIR light, allowing optical sorters to detect the underlying polymer resin.

## True Circular Compatibility

Pack components are correctly identified and sorted into standard polyolefin recycling streams instead of being rejected as non-recyclable residue.

## Zero Aesthetic Compromise

Delivers the saturated, premium jet-black gloss and color depth expected in high-end cosmetic packaging.

## Applications

- ✓ **Components:** Tubes & Closures
- ✓ **Sustainability:** Post-Consumer Recycled (PCR) resin integration

For technical data sheets, resin compatibility guides, or custom color matching in NIR-detectable formulations, contact sales@srpackaging.com