

# Brightener Masterbatch (Recycled Material Grade)

**Product Name:** Optical Brightener Masterbatch

**Product Code:** SLM-OB100

**Carrier Resin:** Polyolefin (Universal PE/PP Compatible)

**Active Ingredient:** High-Efficiency Fluorescent Whitening Agent

**Website:** [www.slmb.com](http://www.slmb.com)

## 1. Product Description

SLM-OB100 is specifically engineered to enhance the aesthetic quality of recycled plastics (PCR/PIR). It functions by absorbing ultraviolet light and re-emitting it in the blue spectrum, effectively neutralizing the yellowish or dull tint commonly found in recycled PP, PE, and ABS. It transforms "off-color" regrind into high-brightness, premium-looking material.

## 2. Technical Specifications

Property	Test Method	Typical Value	Unit
Appearance	Visual	Bright Yellow Pellet	---
Melt Flow Index (MFI)	ASTM D-1238	10.0 – 18.0	g/10 min (190°C/2.16kg)
Moisture Content	ASTM D-644	< 0.12%	%
Heat Resistance	---	280°C - 300°C	°C
Dispersion Rating	---	Excellent	---

## 3. Application Benefits

- Neutralizes Yellowing:** Masks the inherent yellow or grey tones in recycled resins.
- Boosts Surface Gloss:** Increases the perceived "newness" and brilliance of the finished part.
- Economic Efficiency:** Allows for a higher percentage of recycled content in the final formulation without sacrificing visual appeal.

## 4. Recommended Dosage

- Recycled Pelleting:** 0.05% – 0.2% (Adjust based on initial resin color).
- Direct Injection/Extrusion:** 1.0% – 2.0%.

**Disclaimer:** The information provided above is based on our current knowledge and laboratory testing. It is intended as a general guide. Since the conditions of use are beyond our control, we recommend customers conduct their own trials before full-scale production.

For samples and customized formulations, please visit:  [www.slmb.com](http://www.slmb.com)

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