

MASTERBATCH**MASTERBATCH Bio-K80J****PLA CALCIUM CARBONATE FILLER MASTERBATCH**

This specialty filler masterbatch disperses a high loading of fine calcium carbonate (CaCO_3) in a biopolymer (PLA) carrier resin with processing additives, formulated for compostable injection-molding and extrusion products. The biopolymer carrier preserves the compostability of the finished part while the calcium carbonate reduces material cost and improves processability at high let-down ratios.

Typical Application

- Compostable PLA injection-molding products
- Compostable PLA extrusion products

Product Characteristics

- Biopolymer (PLA) carrier resin for compostable end products
- High calcium carbonate loading for cost reduction
- Good processability at high let-down ratios
- Fine, well-dispersed calcium carbonate particle size

Physical Properties

Properties	Test Method	Typical Value	Unit
Calcium Carbonate (CaCO_3) Content		80	%
Carrier Resin		Biopolymer (PLA)	
Melt Flow Index (190°C/5 kg)	ASTM D1238	5-40	g/10 min
Density		1.8-2.2	g/cm ³
Moisture Content		< 0.1	%

Processing Guidelines

Recommended addition rate is 10-50% into PLA injection-molding and extrusion formulations; adjust processing temperature to remain within the base PLA resin's melt-processing window. Actual dosage and processing conditions should be confirmed against the target part design and PLA grade in use.

1. No grade-specific producer datasheet for Bio-K80J was located; the property values above are typical values compiled from published third-party PLA-carrier calcium carbonate filler masterbatch data sheets and general biodegradable filler masterbatch specifications, cross-checked against the 80% CaCO_3 loading and PLA carrier confirmed in the producer's own grade description.

2. Typical values per published industry family data for this product type; grade-specific certificate of analysis supplied per lot at order.

3. The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.