

Filler Masterbatch Solution for **PLASTIC BAGS PRODUCTION**

CONTEXT

A plastic bag manufacturer in India was using locally sourced filler masterbatch for producing various film applications, including T-shirt bags, garbage bags, and other thin plastic bags with a thickness of 10-12 microns. The manufacturer aimed to maintain competitive pricing while meeting high standards for product quality and appearance.



Challenges

Due to the low quality of the local filler masterbatch—lacking brightness and purity—the final products had uneven color, rough surfaces, and inadequate tensile strength. These issues impacted the quality and aesthetics of the plastic bags, making it difficult to meet customer expectations and maintain a competitive edge. The manufacturer needed a reliable solution to improve product quality without significantly increasing production costs.

Solution

Upon reviewing product samples, Mega Plast identified that the local filler masterbatch used was made from recycled plastic and low-quality, dark-toned CaCO_3 , which affected both durability and aesthetics. To resolve these challenges, Mega Plast recommended their F261 filler masterbatch.

The F261 grade is specially designed to deliver high-quality results for film applications at a competitive price. Known for its stable performance, F261 allows a high filler loading of 55%-60%, helping manufacturers reduce production costs by up to 40%-50%. Its high brightness and fine particle size ensure better dispersion and a smooth, glossy finish, which significantly enhances the final product's appeal.



Result

After switching to F261, the Indian manufacturer found it fully compatible with their existing production lines, with no need for process changes. Although the loading rate of F261 was similar to the previous local filler, the quality of the final product greatly improved. Issues with dispersion and tensile strength were effectively addressed. Moreover, F261's formulation, made from virgin resin and high-purity CaCO_3 with a particle size of $D_{50} \leq 20$ microns, resulted in enhanced gloss and a smoother surface, delivering a significant upgrade in the aesthetics and quality of their film products.



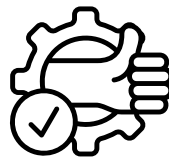
WHY SHOULD USE FILLER MASTERBATCH?



**Improved
Product
Quality**



**Cost Savings
Solution**



**Stable
Performance**



CONCLUSION

By integrating Mega Plast's F261 filler masterbatch, the Indian plastic bag manufacturer achieved superior product quality and substantial cost savings. If your business is looking to improve film applications while optimizing production costs, contact Mega Plast for a high-performance solution tailored to your needs.

Download

The Detailed Case Study

Want to know more about how Mega Plast helped manufacturers in India optimize their production costs? Download the detailed case study here to get more information and the right solutions for your needs.

Nhat Huy Group is a pioneering manufacturer and exporter of plastic products in Vietnam, established in 2004. We offer a range of high-quality products including mineral powder, filler masterbatch, and PVC compound, serving global markets. Committed to innovation and improvement, Nhat Huy Group is dedicated to providing sustainable, efficient, and environmentally friendly plastic solutions, contributing to community and societal development. Our team of experts is always ready to deliver products and services that meet international standards, ensuring maximum satisfaction for our customers.