



## RESTORING TRUST AND PUSHING PP WOVEN LOADING RATE TO 20% IN EAST AFRICA

In the highly competitive landscape of global plastic manufacturing, raw material price volatility is a constant threat. For PP Woven sack producers, increasing the filler masterbatch loading rate is the most direct strategy to secure profit margins. However, finding a supplier capable of providing a stable, high-loading formulation is incredibly challenging.

As promised, Mega Plast is thrilled to kick off our Case Study series by sharing a real-world success story from our strategic partners in East Africa (Uganda and Kenya). This story proves that true product quality is measured by operational success, tangible cost savings, and a foundation of absolute trust.

### **Problem:** Unstable Supply and Deep-Rooted Trust Issues

Our client, a major PP Woven manufacturer producing heavily for the export market, was in a vulnerable position. They were battling wildly fluctuating material prices and desperately needed a reliable Cost-Saving Solution.



However, our strategic partner was caught in a crisis. They suffered through deceptive practices, inconsistent filler quality, and a lack of reliable supply. Inferior materials caused severe water carry-over on their high-speed lines, leading to defective yarns and delayed production. Constantly changing vendors without seeing any improvement had created a massive "Trust Issue". They were exhausted by empty promises and highly skeptical of allowing any new supplier to run trials in their facility.

## Key Challenge: Stuck at a Costly 15-18% Barrier

When a factory loses trust in its supply chain, innovation postpones. Because of the water carry-over risk from standard fillers, the client was forced to keep their loading rate at a conservative 15% - 18%.

Any attempt to increase the loading rate to save money resulted in ruined batches and weakened sacks. Being unable to push beyond this 18% barrier meant they were absorbing higher virgin polymer costs, which severely threatened their pricing competitiveness in the demanding export market.

## Mega Plast Solution: On-Site Commitment and Custom Engineering

Mega Plast understood that overcoming such deep-seated skepticism required more than just an email or a standard technical data sheet. To prove our commitment to a long-term, stable partnership, our R&D and sales experts went directly to the client's factory in East Africa for face-to-face meetings and on-site testing.

*We understand that they needed an ultra-fine powder formulation to completely avoid water carry-over and successfully push the target loading rate beyond 20%.*



Instead of relying on standard products, Mega Plast's R&D team immediately got to work and engineered a customized PP Filler Masterbatch. By utilizing exceptionally fine, high-quality calcium carbonate powder and integrating specific performance additives, we tailored the formulation perfectly for their high-speed extrusion requirements.

## Result:

## Exceeding Expectations in Cost and Quality

The trial of Mega Plast's customized formulation delivered outstanding, data-driven results that completely restored the client's confidence:

### Target Loading Rate Achieved

The loading rate was successfully and smoothly increased from 18% to 20%. The client reported excellent product quality, noting the strong potential to load even higher than 20% in future runs.

### Superior Product Quality

The ultra-fine formulation guaranteed perfect Good dispersion, eliminating water carry-over entirely. The final woven sacks maintained excellent PP Woven: High tensile strength, crucial for their export standards.

### Massive Cost Optimization

By pushing the loading rate and providing competitive pricing, Mega Plast delivered a direct 2-3% reduction in overall raw material costs compared to the competitor grades they previously used.

Metric	Before (Competitors)	After (with Mega Plast)
Loading Rate	15-18%	20%+
Water Carry-Over	Unstable Quality & Water Carry-Over	Zero Water Carry-Over
Result	Trust Issues	2-3% Cost Reduction

## Conclusion:

A successful manufacturing operation requires more than just cheap materials; it requires a partner who guarantees Consistent Quality and stands by their commitments. Mega Plast proved that by combining deep technical expertise with dedicated on-site support, we can turn a technical barrier into a highly profitable advantage.

### Download

The Detailed Case Study

*Are you dealing with unstable filler quality or struggling to increase your loading rates? Let our technical team engineer the right formulation for you. Contact Mega Plast today for a technical assessment!*

### Request a sample today

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.