

Polyvel^{inc.} designs and produces specialty additive masterbatches and custom compounds that serve numerous thermoplastics applications. In addition to developing functional additives for plastics producers, Polyvel is a fully capable toller.

Our specialty masterbatches are used in packaging, recycling, nonwovens, injection molding, blow molding, automotive, medical, and many other applications. We offer a wide range of proprietary products and also develop custom products for customer-specific applications.

With our industry-leading lead times, we pride ourselves on meeting our customers' needs in the shortest possible time. Our business operates around our 5 core principles: Our Customers, Our People, Innovation, Continuous Improvement, and Sustainability.

Don't See What You Want? Ask for it!

When it comes to specialty masterbatches, don't settle for something that is close. We can work with you to develop a customized solution tailored to your specific needs. Whether it's higher loadings or multiple component systems, talk to us before you settle for less.



100 Ninth Street
Hammonton, NJ 08037
609-567-0080

www.polyvel.com



High Quality Specialty Additive Masterbatches

SPECIALTY ADDITIVE MASTERBATCHES

Polyvel offers a wide range of proprietary masterbatches that provide the functional additives and loading characteristics for all your product needs. Our Technical Team also develops custom formulations and loadings to provide flexibility in the customer's processes and products.

CUSTOM COMPOUNDING

At Polyvel, our additive masterbatch can also be manufactured as a full compound. Our capabilities are ever evolving in this market. Our equipment designs allow for all levels of product addition, as well as broad resin selections. Ask your sales rep about your current development needs!

TOLL & CONTRACT COMPOUNDING

Polyvel offers its expertise as a fully capable toller. These opportunities can also include capital additions and capacity allocation for the customer relationship. Our team has extensive experience with this market and will work to understand the customer's immediate and long-term goals.

PRODUCTS

Antiblocks

Antiblocks decrease the contact between layers of film, preventing them from sticking together. Antiblocks are available for food contact and clear applications, and are customizable by application.

Antifogs

Available for hot and cold fog applications, antifogs are used in packaging to prevent condensation on the inside surfaces of the package. They increase film surface energy so that the water forms a continuous transparent layer instead of droplets.

Antimicrobials

Antimicrobials prevent the growth of multiple types of bacteria and a wide array of fungal organisms. Available in several different carrier resins as free-flowing pellets for addition in sheet extrusion, nonwovens, and injection molding.

Antioxidants ∞

Stabilizers designed to protect recycled polyolefins and rPET from excessive degradation, such as gel formations and yellowing. Antioxidants protect mechanical and optical properties of packaging, thereby enabling higher incorporation of PIR and PCR content.

Antistats

Antistats reduce surface resistivity via an aqueous layer formed on the plastic film surface. The aqueous layer discharges static electricity generated by the triboelectric (frictional) action.

Clarifying Agents

Provide enhanced clarity in polypropylene homopolymer and random copolymer polypropylene. Besides improving clarity, clarifying agents can also increase gloss, impact strength, and dimensional stability.

Desiccants ∞

Desiccants prevent issues caused by high moisture content of recycled polymers and regrind, allowing for higher use of these recycled materials.

Electrostatic Charge Retention

Enhances the retention of electrostatic charge applied to non-woven polypropylene fabrics.

Foam Stabilizers

Glyceryl monostearate (GMS) is a multifunctional additive that Polyvel incorporates into an easily handled, dry pellet. It stabilizes by regulating gas release from bubbles. Also, the masterbatches contain no fillers, making them ideal for clear film applications.

Hydrophilics

Polyvel offers an exceptionally efficient hydrophilic moisture absorber for technical polypropylene nonwovens applications, including melt-blown fibers. Its uniform and low-dusting pellet form provides for cleaner incorporation and processing than topically applied wetting agents.

Impact Modifiers

Polyvel impact modifiers are popular in thermoformed sheet applications, injection molded components, and 3D printing. We offer an excellent impact modifier for PLA applications where clarity and compostability are important.

Lubricants & Slip Additives

Lubricants and slip additives are used by injection molders, film processors, and compounders to add surface lubrication and mold release properties directly into the resin pellet feed without release sprays or pre-compounded resins. This class of masterbatches can also serve as a process aid by modifying the resin surface to reduce the coefficient of friction.

Polyflow Melt Flow Enhancers by Polyvel ∞

Polyvel offers a broad range of pelletized and granular peroxide masterbatches for polypropylene reprocessing, injection molding, fiber processing, and polyethylene or EVA. Peroxide masterbatches are highly effective in increasing polypropylene melt flow rate for both extrusion and injection molding.

Nucleating Agents ∞

Nucleating agents improve processing speed, dimensional stability, and physical properties in molded or extruded products. In standard injection, gas injection and chemical foaming applications, nucleating agents improve dimensional stability and density.

Odor Managers ∞

Odor managers are innovative wide-spectrum odor neutralizing or scented solutions designed to enable higher incorporation of post-industrial and post-consumer content and other malodor challenges where organoleptic properties are important.

rBOOST PET Chain Extender BY POLYVEL Developed to increase the intrinsic viscosity (I.V.) of rPET allowing for inclusion of higher rate of recycled material and to maintain the I.V. of virgin PET after numerous passes. While maintaining clarity, Polyvel's PET Chain Extender will also reduce the yellowness index of rPET while imparting higher impact and melt strength and offering better processability.

PFAS-Free Process Aid ∞

Processing aids optimize the manufacturing process. Polyvel's PFAS-Free Process Aid for film extrusion is free of the potential hazards of fluoro-based process aids. Advantages of processing aids include increased throughput, eliminated melt fracture, improved processability, prevention of die buildup, and lower energy requirements.

PLA Masterbatches ∞

PLA (polylactic acid) resin is a compostable polymer that supports sustainability efforts. Polyvel is a leading manufacturer of PLA masterbatches in a dry, easy-to-handle pellet. PLA is used in numerous processes, including extruded foam, cast or blown film, sheet extrusion, and injection molding.

PLA Processing Aid ∞

This biodegradable, FDA Approved PLA Processing Aid was developed to maintain clarity and enhance the melt strength of PLA without increasing the melt viscosity, effectively allowing for increased output rates.

Polyolefin Stabilizers ∞

Polyvel offers polyolefin stabilizers in customized blends of antioxidants, hydrolytic, and polymer additive packages that are formulated to stabilize polyolefin resins.

Process Aids ∞

Process aids are designed to eliminate melt-fracture and "shark skin", minimize die build-up, reduce extrusion back pressure, reduce gels and waste, increase uptime, and improve productivity.

Softening Agents

Polyvel's softening agents create superior softness by reducing the surface coefficient of friction without the need for additional processing steps. They require exceptionally low use levels, making them an extremely cost-effective means of adding soft feel to a wide variety of PP nonwoven products. Polyvel's softening agents impart no color and can be mixed into any spun bond or melt-blown grade of polypropylene.

Ultraviolet Stabilizers ∞

These additives can improve shelf life, reduce plate-out in films or on machinery, and lessen interference with seals, print, and laminations. Innovative technology allows for use in thinner films and provides broad UV absorbance coverage with lower loadings and longer-lasting performance.