

Additive solutions for thermoplastic applications in the appliance industry

Improving performance, economics, and customer satisfaction

In the appliance industry, product success balances on considerations of performance, durability, cost, and appearance. New designs and production processes allow improvements without trade-offs that could affect consumer acceptance.

Advances in fiber reinforcement make it possible for thermoplastics to replace metal or more expensive resins in larger parts. Seals and other resilient components are being produced more efficiently and more economically by improved extrusion or molding operations. Integral colors are eliminating cost and weight without compromising surface appearance. And the use of natural-fiber reinforcements is polishing brand images in the eyes of environmentally conscious buyers.



ADD COMP North America is already producing additive solutions for the polyolefin and polyamide materials that support progress at appliance makers and part suppliers. The company is also at work on improving the next generation of resins for this vibrant, competitive segment. With a thorough understanding of additive technology and a comprehensive portfolio of additive products, ADD COMP is committed to the wider use of thermoplastics and thermoplastic composites.

PRIEX® coupling agents improve structural properties as much as 30%

PRIEX® coupling agents feature a functional group of maleic anhydride (MAH) grafted onto a polyolefin backbone. Their use enhances the strength of glass-reinforced composites by bonding the polyolefin matrix to the reinforcing strands. Greater coupling increases both tensile and impact strength.

Additive solutions incorporating PRIEX coupling agents can facilitate the use of natural-fiber reinforcements by helping the polymer matrix coat the fibers, improving structural properties and reducing moisture absorption. The purity of PRIEX products can reduce emissions of VOCs. Additional environmental benefits could be realized by the use of PRIEX additives to compatibilize dissimilar materials, leveraging an appliance's recyclability.

Complementary additive systems

ADD COMP delivers a wide range of additive technologies to improve durability, performance, and appearance while reducing production cost and complexity.

ADD-AO™ anti-oxidants improve temperature stability, protecting parts during processing and improving heat-aging in use. Anti-microbials help increase consumer satisfaction with parts that live in high-moisture, household environments. ADD-FR™ flame retardants help manufacturers meet important safety standards. And ADD-BLACK™ pigments simplify the production of pre-colored applications.

In addition to helping meet consumer expectations, ADD COMP offers a variety of processing aids that can improve the surface appearance of molded or extruded components, increase manufacturing throughput, and reduce energy use.

ADD-AF™	ADD-CLEAN™	ADD-RESIST™	anti-biologicals	cleaning agents	odor reducers
ADD-AO™	ADD-DS™	ADD-SLIP™	anti-blocking agents	compatibilizers	oil and water
ADD-AS™	ADD-FR™	ADD-UV™	anti-fogging agents	coupling agents	repellents
ADD-BA™	ADD-MAX®	ADD-VANCE®	anti-oxidants	desiccants	plasticizers
ADD-BLACK™	ADD-NU™	PRIEX®	anti-static agents	flame retardants	slip agents
ADD-CL™			blowing agents	nucleating agents	UV stabilizers
			clarifying agents		

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System delivery alternatives

ADDCOMP produces a comprehensive range of polymer additive solutions for composite materials, for compounds, or for single-species resins. We can provide them as individual components or in a custom formulation of multiple additives.

Where liquid additives are appropriate, a masterbatch is supplied as pellets featuring high concentrations of additive chemistry in a matrix of select polymer. Where an additive system consists of compatible dry components, we can supply the formulation in compacted-powder form or as a powder blend. In every case, an ADDCOMP product will be configured for ease and accuracy of metering and for process flexibility in dosing.

History of success

The founding of ADDCOMP in 1998 brought together in one company a breadth of experience and a depth of understanding of additives technology unmatched in the plastics industry. Since then, we have maintained our focus on the development and delivery of additive solutions for manufacturers and compounders of polyolefins, polyesters, polystyrenes, and polyamides. In little more than a decade, we have reshaped the way our customers value additive systems.

ADDCOMP solutions are being used by manufacturers of molded or extruded appliance applications worldwide. Our products can enhance the performance, durability, and processing of mechanical or appearance parts. And help appliance brands gain preference with prospective buyers.



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