

Additive solutions for thermoplastic applications in the packaging industry

Putting good things into flexible or rigid packaging

The use of thermoplastic polymers in both rigid and flexible packaging will continue to grow as long as the performance profiles and economics of these materials trend in a positive direction.

The popularity of reusable plastic crates, pallets, and dunnage will depend on their ability to protect themselves as well as their contents. For flexible films, environmental and cost considerations will encourage downgauging, placing new demands on additive technologies to address issues of strength, clarity, and barrier performance. Multiple conversion processes for both hard and soft applications will benefit from aids to processing and handling.

ADD COMP North America is already producing additive solutions to address each of the performance and processing issues facing polypropylene or polyethylene materials in this valuable and growing segment. With a thorough understanding of additive technology and a comprehensive portfolio of products, ADD COMP is committed to the wider use of thermoplastics and thermoplastic composites in innovative and economical packaging applications.



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, facilitating 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 polymers during processing and improving heat-aging in use. Anti-microbials help increase the durability of packaging that must survive in high-moisture environments at elevated temperatures. ADD-FR™ flame retardants help manufacturers meet critical industry standards. And PRIEX ionomers can improve the barrier performance in critical film applications.

In addition to helping keep up with structural, economic, and environmental demands, ADD COMP offers a variety of processing aids that can increase manufacturing throughput and reduce production costs for molded, extruded, or thermoformed components.

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 in multiple conversion processes by packaging manufacturers worldwide. Our products can improve durability, enhance performance, and facilitate recycling for rigid or flexible applications designed for a range of industrial or consumer markets.



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