ADDCOMP
Polymer Additive Solutions

Market Summary

Additive solutions for thermoplastic applications in the electrical and electronics markets

Keeping pace with advances in processes and products

The intense investigation of energy alternatives and the rapid proliferation of electronic features in products for every market are creating opportunities for innovative thermoplastic materials and manufacturing processes.

Cost considerations and operating environments are pushing polyolefins into flexible, extruded wiring insulation and cable jacketing. Rigid profiles are finding acceptance as conduit for data cabling. High levels of dimensional stability in connector blocks can be provided by glass-fiber reinforced materials. Reinforced extruded sheet can be thermoformed into access panels or complete exterior enclosures for electrical connections or controls. And lightweight, cost-effective substrates are enabling new solar panels and arrays.

ADDCOMP North America is already producing additive solutions for the polyolefin compounds that will bring environmental resistance, structural stability, and color to industrial or consumer applications. With a thorough understanding of additive technology and a comprehensive portfolio of additive products, ADDCOMP is committed to the wider use of thermoplastics and thermoplastic composites in the electrical and electronics industries.

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, simplifying the use of recycled content.

Complementary additive systems

ADDCOMP 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 extend the lives of components and enclosures that work in high-moisture environments. ADD-FR™ flame retardants help manufacturers meet critical industry standards. And ADD-BLACK™ pigments simplify the production of pre-colored applications.

In addition to helping keep up with structural and environmental demands, ADDCOMP offers a variety of processing aids that can improve the surface appearance of molded or extruded components, increase manufacturing throughput, and reduce production costs.

ADD-AF™
ADD-AO™
ADD-AS™
ADD-BA™
ADD-BLACK™
ADD-CL™
ADD-CLEAN™
ADD-DS™
ADD-FR™
ADD-MAX®
ADD-NU™
ADD-RESIST™
ADD-SLIP™
ADD-UV™
ADD-VANCE®
PRIEX®

anti-biologicals
anti-blocking agents
anti-fogging agents
anti-oxidants
anti-static agents
blowing agents
clarifying agents
cleaning agents
compatibilizers
coupling agents
desiccants
flame retardants
nucleating agents
odor reducers
oil and water repellents
plasticizers
slip agents
UV stabilizers

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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 designed to be used in multiple processes by electrical and electronics manufacturers worldwide. Our products can enhance structural performance, improve durability, and help control life-cycle costs in traditional and innovative applications in this important and expanding segment.

Contact us

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