



PERFORMANCE ADDITIVES FOR ADHESIVES

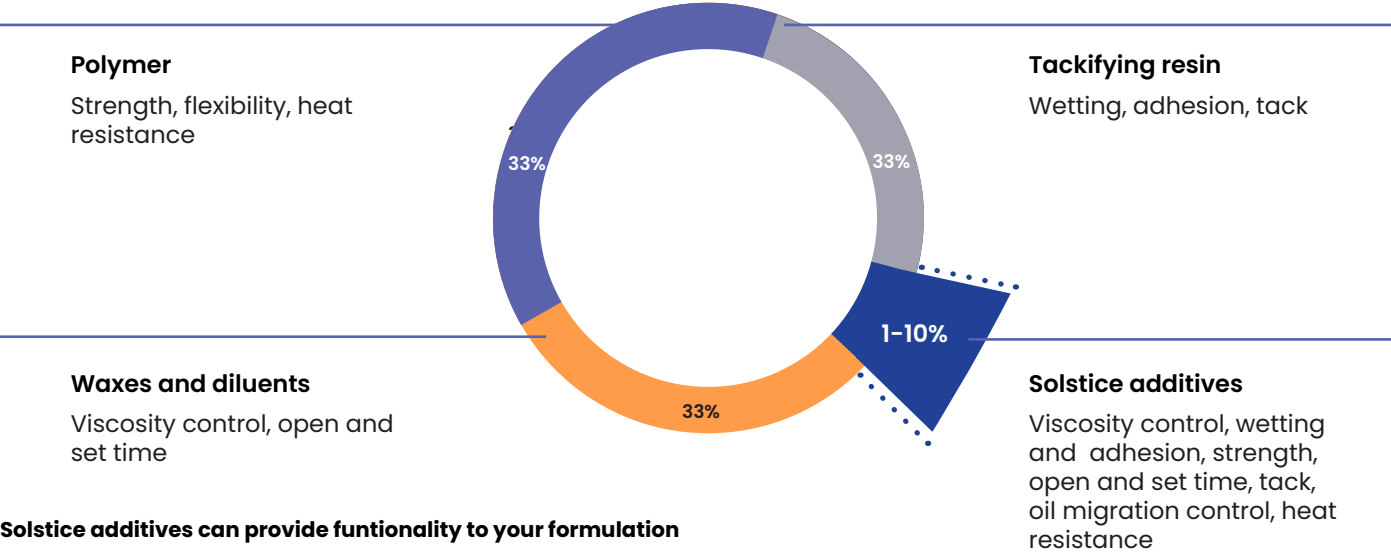


SOLSTICE PERFORMANCE ADDITIVES FOR ADHESIVES

ENHANCE PERFORMANCE.
IMPROVE PROCESSING. INCREASE VALUE.

Solstice performance additives are designed to enhance performance, improve processing, and increase the value of your adhesives. Our A-C®, ACumist® and Cohesa® brand polymers help to extend the range of your hot melt adhesives by influencing a variety of different properties, improving cold and high temperature performance and low surface energy substrate adhesion, lowering application temperature, oil migration control, which helps your adhesives become more competitive. Each additive in our product line is backed by Honeywell’s consistent quality, customer service, and reliable global supply network. We are the world’s leading manufacturers of low molecular weight polyethylene additives. Solstice’s technical support is prepared to help you identify and apply the additives you need for your specific application.

HOT MELT ADHESIVE COMPOSITION



Your search for the right product begins with the broad selection of additives Solstice manufactures, and those products offer a variety of benefits for virtually any type of adhesive chemistry:

Ethylene vinyl acetate (EVA)

- Increased adhesion
- Reduced processing times
- Modify set times
- Improved hot and cold temperature resistance
- Increased wetting

Styrenic block copolymers (SBC)

- Increased adhesion
- Oil migration control
- Plasticizer migration

Metallocene polyolefins (MEO and MPP)

- Increased adhesion to low surface energy substrates
- Improved cold temperature adhesion
- Reduced set times
- Improved heat resistance

Polyamides plasticize migration (PA)

- Reduced viscosity
- Improved set speed

Metallocene polyolefins (MEO and MPP)

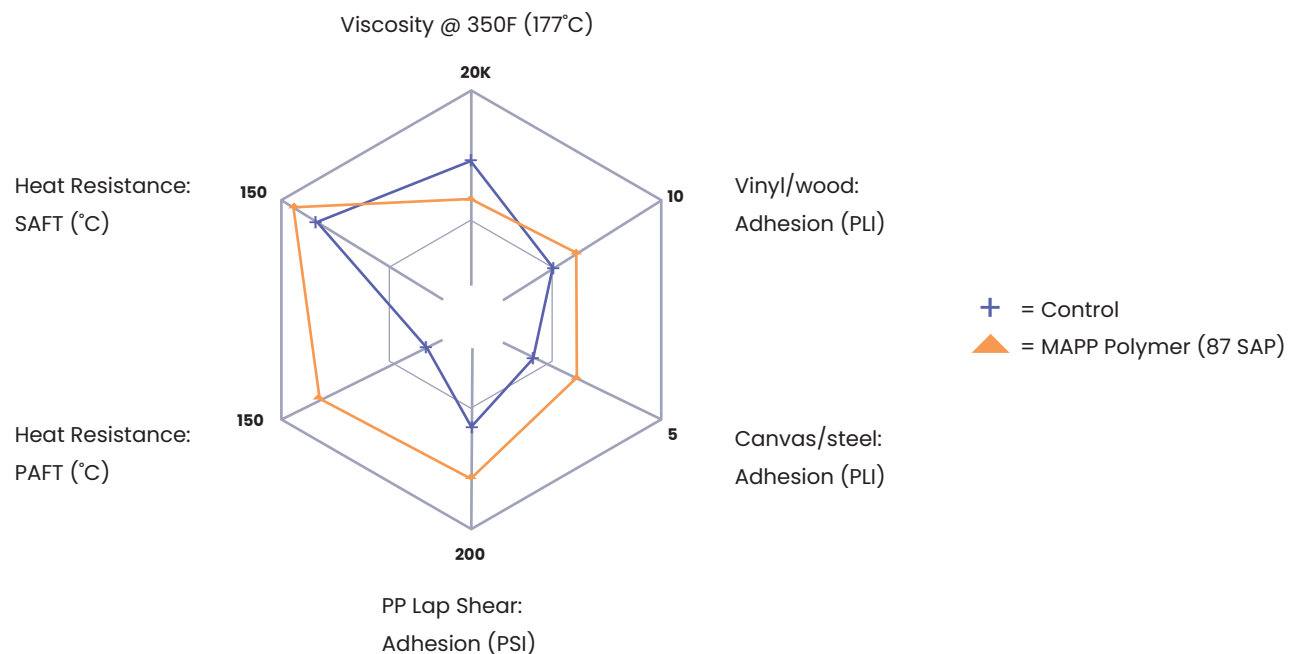
- Increased adhesion to low surface energy substrates
- Reduced adhesive stringing
- Increased heat resistance
- Modify set speed

KEY BENEFITS OF A-C[®] PERFORMANCE ADDITIVES

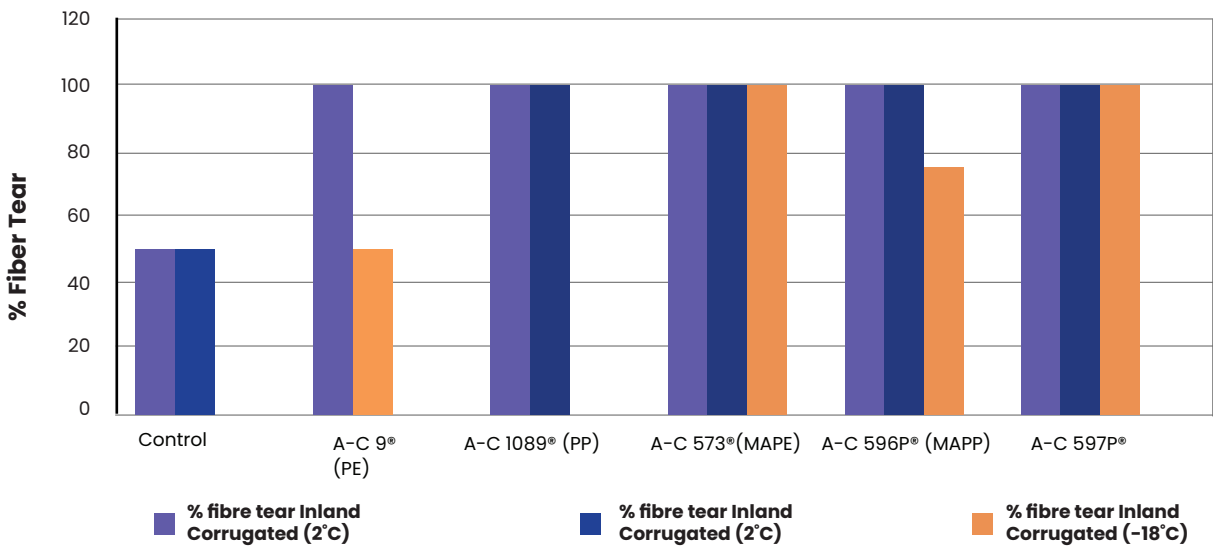
ACHIEVE GREATER ADHESION

Even on dissimilar surfaces and/or low surface energy substrates, A-C performance additives help your hot melt formulation achieve greater adhesion strength.

Whether the surface is polypropylene (PP), polycarbonate (PC), polyvinyl chloride (PVC), polyethylene (PE), polyethylene terephthalate (PET) or coated and uncoated kraft cardboard, A-C performance additives are designed to improve your product’s ability to adhere to virtually any surface.

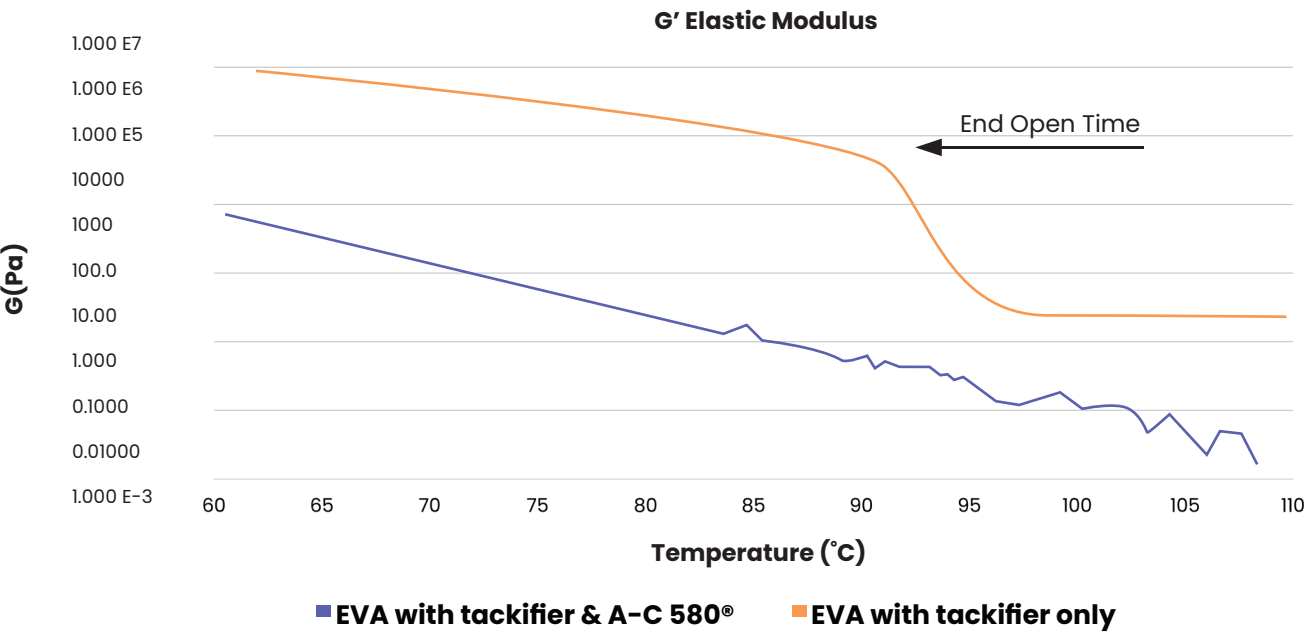


These additives also reduce the viscosity of your formulation, which helps to improve adhesion and wetting on the substrate. A-C performance additives even boost your hot melt’s ability to adhere to substrates at freezer temperatures.



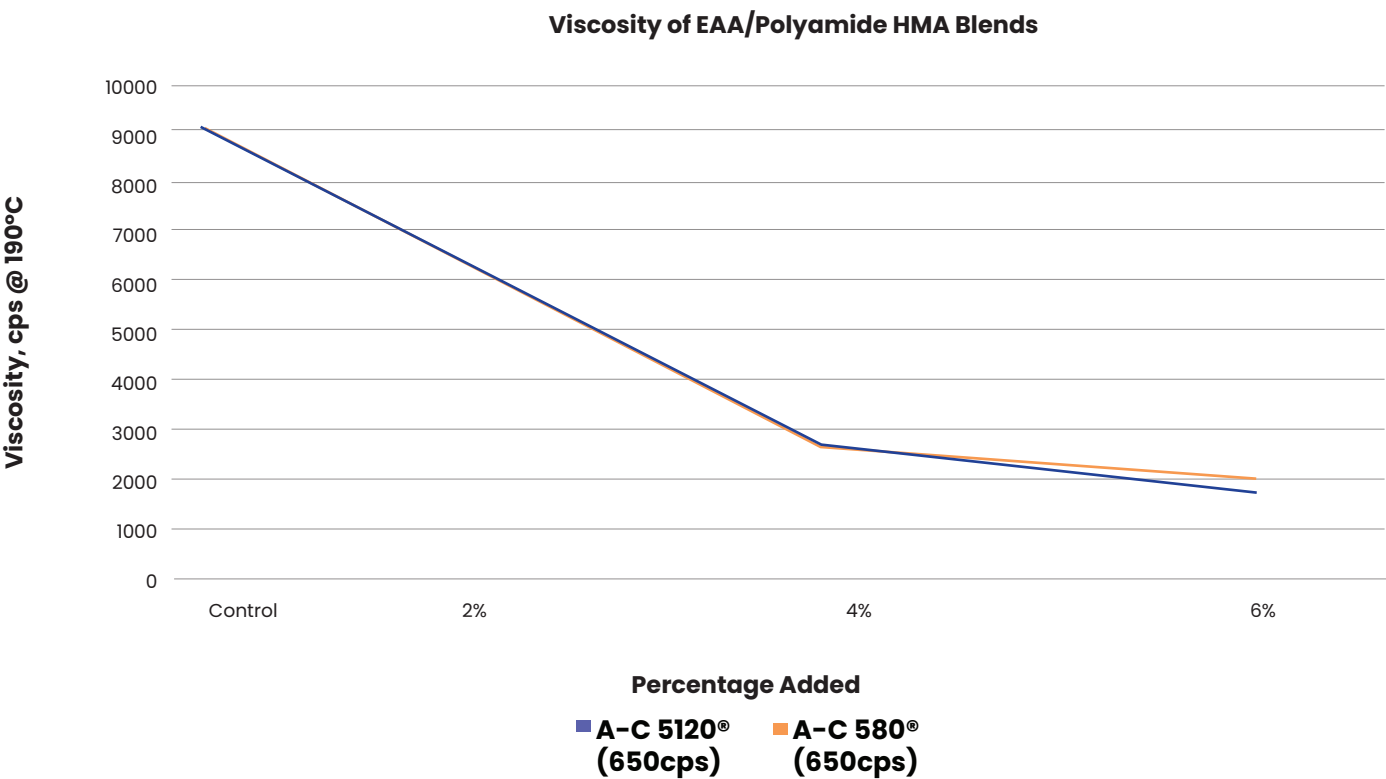
REDUCE PROCESSING AND SET TIMES

With their ability to lower the viscosity of your formulation, A-C performance additives help to reduce your batch mixing times. They also decrease your product’s set time, which means your adhesive customers can boost their productivity.

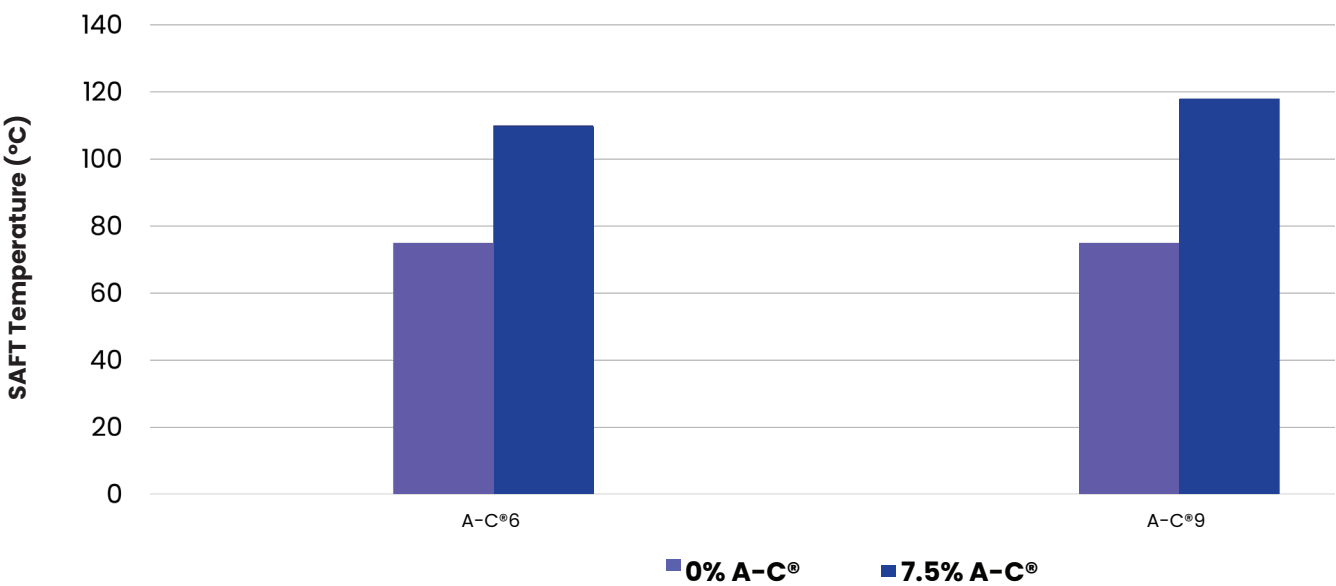


LOWER APPLICATION TEMPERATURES

By reducing the viscosity of your formulation, A-C performance polymers lower its application temperature, which improves application speed and reduces energy costs. This also improves the formulation’s adhesion to heat sensitive substrates, such as plastic, without affecting its heat resistance performance

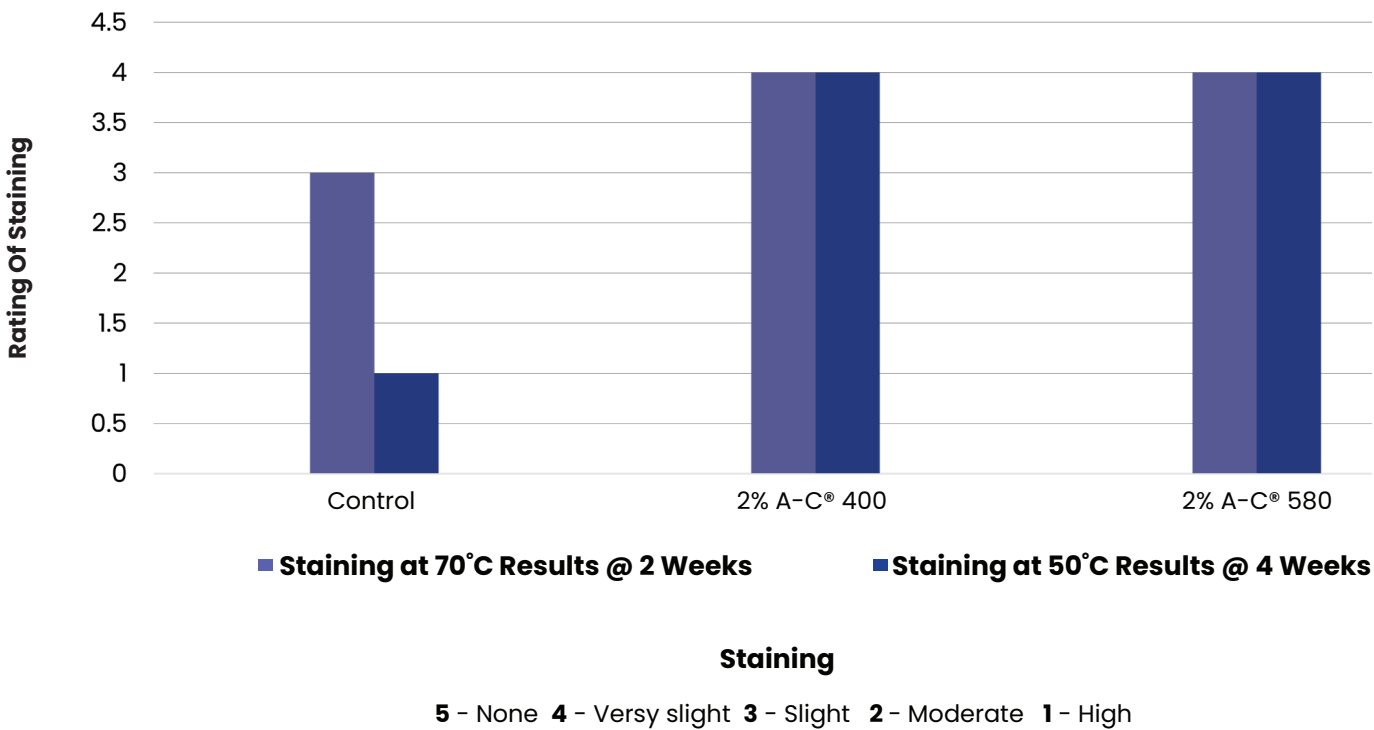


To improve Heat Resistance, when your customers’ specifications call for a heat resistant hot melt, A-C performance additives can be used to elevate the softening point of your formulation. This will help to ensure your product can withstand higher temperatures.



CONTROL OIL AND PLASTICIZER BLEED

A-C performance additives feature a unique ability to hold oils that can bleed from your adhesive, which helps to maintain the strength of the adhesive and preserves the aesthetics of paper and labelling. They can also reduce plasticizer bleeding from PVC films, preventing the adhesive from softening which could lead to adhesive failure.



PRODUCT APPLICATIONS

From packaging to woodworking, A-C performance additives have been used to improve adhesives and sealants for more than five decades. When you use Honeywell A-C performance additives, you benefit from technical support specialists that understand your application.

These specialists are experts in the chemical, physical and application-based properties of our additives, and can help you quickly identify the additives best suited for your needs. Whether you are seeking to improve your product's heat or aging resistance, or enhance its adhesion, Solstice experts can find the right blend to improve your formulation.



Packaging

Enhance the adhesion and set times of your formulation in coated and uncoated carton applications. A-C performance additives provide the cold temperature performance, or heat resistance you need to ensure your formulation maintains strong adhesion throughout the lifecycle of the product



Bookbinding

Help your hot melt reach the level of strength, flexibility and durability bookbinding requires. A-C performance additives help to promote adhesion over the lifetime of a bind, while offering greater processing speeds on your customer's production lines.



Woodworking

The difficulty of adhering PVC or PP foils to wood, can be overcome with an additive that works with your formulation, to reduce stringing and resist heat. With the help of A-C performance additives, you can increase adhesive strength in extreme temperatures, while optimizing the set time of your adhesives to wood substrates.



Hygiene

A-C performance additives reduce the viscosity and lower the application temperature of your formulation in hygienic applications, such as diapers. Your customers will benefit from improved wetting and the ability to apply your product at higher line speeds



Tape and Label

Boost adhesion strength on the low surface energy substrates often encountered in tape and label applications. A-C performance additives and Cohesa also help to stabilize the oils that can bleed into paper, ensuring the aesthetic appeal of your customer's product is maintained



Specialty Applications

A-C and ACumist performance additives are used in many specialty applications, including adhesive pellet detackification and the extension of Fischer-Tropsch waxes. Contact our technical support team today to learn how we can meet the needs of your specific application.

RECOMMENDED PRODUCTS FOR ADHESION ENHANCEMENT BY SUBSTRATE AND ADHESIVE CHEMISTRY*

		ADHESIVE CHEMISTRY				
		STYRENIC BLOCK COPOLYMERS	METALLOCENE POLYOLEFINS	AMORPHOUS POLY-ALPHA-OLEFINS	POLYAMIDES	ETHYLENE VINYL ACETATE
SUBSTRATE	Kraft or Coated Carton	A-C EVA, A-C MAPP	A-C PE, A-C MAPE, A-C MAPP	A-C MAPE, A-C MAPP, A-C PP	A-C EAA	A-C PE, A-C EVA, A-C MAPP
	Polyethylene	A-C EVA, A-C MAPP, A-C MAPE	A-C MAPE, A-C MAPP, A-C PP	A-C MAPE, A-C MAPP, A-C PP	A-C EAA	A-C PE, A-C EVA, A-C MAPP
	Polypropylene	A-C EVA, A-C MAPP, A-C MAPE	A-C MAPE, A-C MAPP, A-C PP	A-C MAPE, A-C MAPP, A-C PP	A-C EAA	A-C PE, A-C EVA, A-C MAPP
	PVC	A-C EAA	A-C EAA	A-C EAA	A-C EAA	A-C EAA

***Contact Solstice for specific product recommendations.**

A GLOBAL COMMITMENT TO TECHNICAL SUPPORT

Every day, Honeywell A-C performance additives are helping to improve the performance of products around the world. More than five decades of expertise in the development of low-molecular-weight polyethylene polymers is at your fingertips through Honeywell's technical support services, with specialists who understand your application. Contact us today to learn more about what we can do for your products.

PRODUCT LINES

Solstice offers several different lines of A-C performance additives to fit your specific application:

PRODUCT	MAJOR BENEFITS
A-C PE Homopolymers	• Viscosity control / Control set time • Application at low temperatures • Increased heat resistance • Reduce oil migration
A-C High-Density Oxidized PE Homopolymers	• Increased heat resistance • Reduce oil migration
A-C EAA Copolymers	• Reduce plasticizer migration • Application at low temperatures • Compatibilizer • Improved adhesion
A-C EVA Copolymers	• Viscosity control/reduced processing time • Improved wetting • Compatibilizer • Improve adhesion

A-C Ethylene Maleic Anhydride
Copolymers (MAPE)

- Increased adhesion at cold temperatures
- Increased adhesion to low surface energy substrates • Compatibilizer

A-C PP Maleic Anhydride Copolymers (MAPP)

- Increased heat resistance
- Increased adhesion at cold temperatures
- Increased adhesion to low surface energy substrates
- Compatibilizer

A-C PP Homopolymers

- Increased heat resistance
- Control set time

Cohesa®

- Reduced oil migration
- Improved adhesive performance at high and low temperatures
- Uncompromised water resistance for adhesion



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