

# Honeywell A-C<sup>®</sup> 5120, 5135, 5150 and 5180 Ethylene-Acrylic Acid Copolymers

Honeywell high acid content Ethylene-Acrylic Acid (EAA) copolymer additives improve the adhesion and physical properties of a wide variety of adhesive, coating and ink systems.



## Improves Adhesives

A-C<sup>®</sup> EAA copolymers produces excellent “stick and grab” and aggressive tack to difficult substrates. The carboxyl functional groups of these low molecular weight copolymers provide the functionality to enhance adhesion.

Because of the high level of acrylic acid functionality, these products are more amenable to dispersion in water than other polyethylene additives, which increases the compatibility in a wide variety of adhesive formulations.

A-C<sup>®</sup> EAAs are also useful in binding with plasticizers and process oils in pressure sensitive and other adhesives to improve aged properties that can degrade due to migration.

## Applications in Coatings and Inks

In addition to boosting adhesion on a wide range of substrates including difficult low surface energy substrates such as plastics. The high acrylic acid content improves wetting of polar substrates.

These additives also provide rheology control (in-can stability, anti-settling, flow control and sag resistance). As an additive for dispersion of pigments, EAAs allow pigments / metal flakes to better orient to surface during drying. In inks it can enhance adhesion on low surface energy substrates such as plastics.

## Part of Honeywell's Broad EAA Copolymer Family

Honeywell offers a series of high acid content EAA copolymers with a wide range of acid numbers from 40 to 185 mg KOH/g; for applications requiring lower acid numbers, consider A-C<sup>®</sup> 540 and A-C<sup>®</sup> 580.

### TYPICAL PROPERTIES:

| Property                 | A-C <sup>®</sup> 5120 | A-C <sup>®</sup> 5135 | A-C <sup>®</sup> 5150 | A-C <sup>®</sup> 5180     |
|--------------------------|-----------------------|-----------------------|-----------------------|---------------------------|
| Hardness, dmm (25°C)     | 8                     | 7                     | 10                    | 50                        |
| Viscosity @ 140°C (cps)  | 600                   | 1100                  | 1000                  | 825                       |
| Drop Point, Mettler (°C) | 92                    | 92                    | 90                    | 76                        |
| Acid Number (mg KOH/g)   | 120                   | 135                   | 150                   | 185                       |
| Bulk Density (g/cc)      | 0.93                  | 0.95                  | 0.96                  | 0.95                      |
| Product Form             | Prill                 | Prill                 | Non-tacky solid       | Clear, tacky, soft, solid |

**For additional information or to contact us , please visit:**  
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