

# Gaia<sup>®</sup> Antimicrobial AB 505

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## **Gaia<sup>®</sup> Antimicrobial AB 505**

An antimicrobial for polyethylene in injection, extrusion and film applications.

Gaia<sup>®</sup> Antimicrobial AB 505 is an organic concentrate that helps to control or retard the growth of bacteria, fungus, and algae in plastic molded parts. Gaia<sup>®</sup> Antimicrobial AB 505 is a powerful additive concentrate produced in an LLDPE carrier resin for ease of dispersion. This product has been used in film, injection molding, and extrusion applications to control growth of bacteria, yeast, mold, and algae. In independent testing, Gaia<sup>®</sup> Antimicrobial AB 505 has been shown to inhibit e-coli and staphylococcus. A loading of 1.5% - 3% will protect plastic articles for an estimated 1 – 2 years. Recommended temperature range should not reach above 428°F.

## **Applications: Blown film, Extrusion, Injection Molding**

Melt Flow: 20 (grams/10 min.), at 190°C

Blend Density: 0.926 g/cm<sup>3</sup> (36 lb. /ft<sup>3</sup>)

Types of Resins: Polyethylene, Polypropylene

Amount Required: 1.5% - 3%

## **Features and Benefits:**

- Organic alternative
- Replaces more hazardous chemicals currently being used
- Non-pesticide and non-toxic alternative

Components of Gaia<sup>®</sup> Antimicrobial AB 505 are compliant with EPA and/or FDA regulations for food contact applications and RoHS compliant. Gaia<sup>®</sup> Antimicrobial AB 505 is packaged in 110 lb. fiber drums. We recommend that this product be kept closed and kept in its original container, away from sunlight, heat, and highly humid environments. Gaia<sup>®</sup> Antimicrobial AB 505, once blended, should be processed and can be stored for future use. Opened packages should be sealed or closed tightly to limit oxygen permeation and oxidation of additives. Product should be used within 6 months of production date. Long term storage not recommended.

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