

# Enhanced Epoxy Composites, Nanocomposites, and Functional Fillers

by Aardvark Polymers

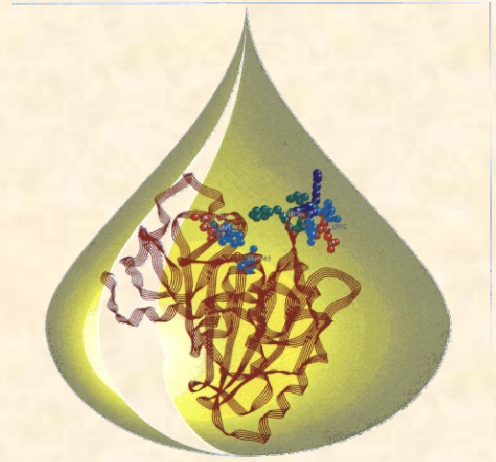


*Celebrating the first 25 years.*  
1983-2008

[gapolymers.com](http://gapolymers.com)

Aardvark Polymers is a leading developer of enhanced epoxy composite materials. We formulate specialty composites with improved properties and characteristics for high heat conditions, extended scratch and wear protection, increased mechanical abilities, conductive and static dissipation requirements, and antimicrobial applications.

Aardvark Polymers will provide fully developed composites developed upon our own base resins or upon the base resins that you are currently employing in your operations. Aardvark provides ready to mix formulations, let down masterbatches, or functional fillers that can be mixed and blended on site.

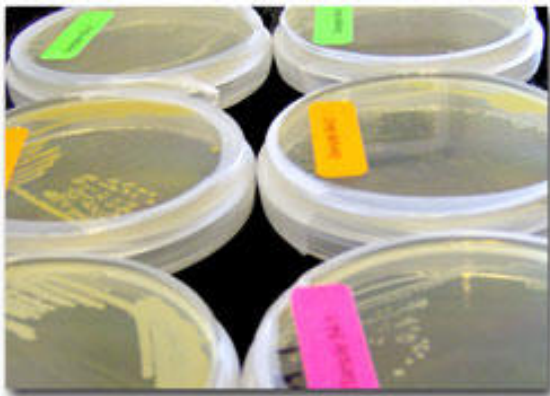


Aardvark composites are designed and formulated to meet the demanding requirements of high performance market applications. We work with our clients to determine the most advantageous formulations for their specific purposes and economic situations.

Aardvark designs composites for all process technologies including resin transfer molding, resin infusion, resin casting, rotocasting, prepeg construction, coating, and adhesive processes.

Aardvark Polymers employs many of the functional fillers that they use in thermoplastic applications to improve and enhance the mechanical properties of thermoset epoxy resins.

Aardvark is a pioneer in the development of nanocomposite epoxies for conductive and static dissipative applications as well as permeation barrier and improved mechanical applications.



Aardvark Polymers has been an industry leader in the development of antimicrobial thermoplastics and has applied those same ion exchange technologies to epoxy resins.

Aardvark employs inorganic antimicrobial additives that operate at ambient moisture levels to provide an ion exchange that disrupts the DNA structure of bacteria ending replication on a cellular level. The efficacy of the antimicrobial components may be varied to meet your specific applications.

Aardvark's antimicrobial components are compounded throughout the base resin to provide ongoing protection even when the cured resin required machine finishing and they are completely resistant in wear applications.

## Custom Formulations

Aardvark Polymers custom formulates all of our epoxy composites to meet your specific requirements. We can design your composites to meet an individual or a combination of properties and characteristics as required by your application.



## Assured Compatibility



Aardvark Polymers formulates their additives with assured compatibility to your base resins through the development of custom carriers and surfactants that allow organic and non-organic materials to bind with each other giving you the maximum benefit of both the filler and the substrate materials.

Aardvark pays close attention to chemical compatibilities and thermal characteristics to assure proper crosslinking and curing conditions.

## Functional Fillers

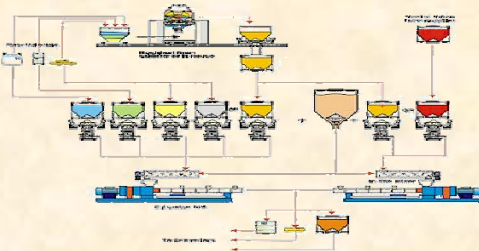
Aardvark Polymers employs a wide range of functional fillers and nano components in the development of enhanced epoxy resins. These include, but are not limited to:

*carbon nano tubes, both single and multi walled ~ montmorillonite nano clay ~ nano minerals ~ micronized carbon fibers ~ micronized aramid fibers ~ micronized industrial diamonds ~ ceramic spheres ~ fluoropolymers including PTFE ~ and a wide range of high performance polymers*



Aardvark Polymers will also provide these fillers in their natural forms for on site blending and mixing applications.

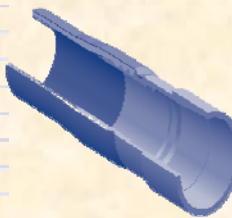
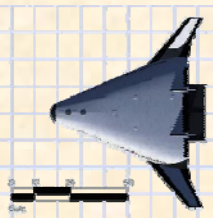
## Processing Technology



Aardvark Polymers also provides processing technologies for the efficient application of epoxy composite masterbatches. We will develop specific instructions for the proper let down and blending sequences required to assure your success with enhanced epoxy composites and nanocomposites.

## Market Satisfaction

Aardvark Polymers is experienced in serving all commercial and industrial markets and will work with your organization to assure that you provide a high level of satisfaction to your end customers for enhanced epoxy products.



[gapolymers.com](http://gapolymers.com)

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*Product, Process, Market, and Business Development*



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Aardvark Polymers is an operational subsidiary of Gehrig & Associates